

Designing the future today.

3M Converter Markets

Selection Guide | July 2023

Creative Precision

3M's legacy of innovation drives the continual improvement of our adhesive technologies. Pair that with the tools and technical support we provide, and you're on your way to quickly finding the products that meet your precise requirements.

3M's industry-leading adhesive technologies, added to your own expertise, will help increase production efficiency and improve product performance, appearance, and identification. Partner with 3M to create converted parts that are perfect for your customer's designs.

Trust 3M Converter Markets as your source for tapes, films, release liners, reclosable fasteners, labeling materials, flexographic mounting systems, graphic solutions and more.



Expect performance. Spec 3M.



Persistent Innovation

It's all about helping customers around the globe increase their production efficiency and improve product performance, appearance and identification.

Chat with us

Monday-Friday

8 a.m. to 5 p.m. Central Time

3M Converter Solution Tools — just a click away.

Compare bonding products based on your specifications using our online Bonding Product Comparison Tool. 3M design specialists can provide additional insight into these options, plus make recommendations tailored to your specific needs.

Let's work together. 3M products are constantly evolving to better meet customer needs. If you need help finding the right product for your solutions, get in touch with us.

Make a winning combination with the 3M TSR Program.

When you're digging into a new project, reach out to your 3M Specialist who will work with you on initial testing of an adhesive design solution.

Information access — 24/7.

From product information and educational materials to our selector tools, you'll find our online resources invaluable.

<u>3M.com/Converter</u>

<u>3M.com/Doublesidedtape</u> <u>3M.com/ThinBondingSelector</u>

Thin Bonding App



Android



Send us a Message

Find "Support Link" at <u>3M.com/Converter</u>. We will respond to your email request in 24–48 hours.



The Science of Adhesion



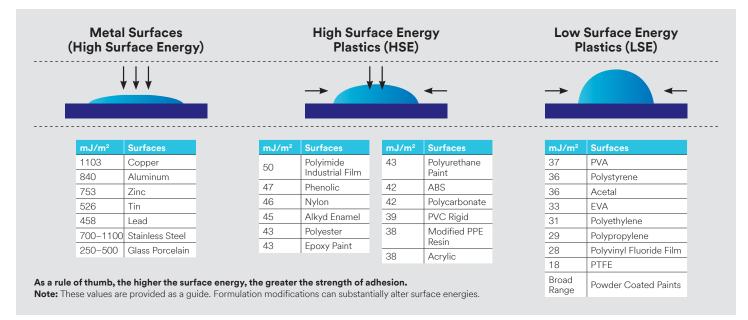
Bonding and Assembly eLearning Academy

Our website offers courses that will expand your knowledge of bonding solutions: how they work, what might go wrong and products to consider for various applications.

Adhesion Science consists of three equally essential parts which combine to form the basis of adhesive selection and adhesive engineering: Surface Science, Adhesive Chemistry, and Joint Geometry.

Learn more about how adhesives work and how you can help them perform better. Go to <u>3M.com/bonding-and-assembly</u> and click on "The Science of Adhesion" link.

Surface energy ranges.



Secure bonding. It's all about adhesive surface contact.

Applying firm pressure to the bond increases adhesive flow and contact for more secure bonding. Time and temperature will typically further increase contact and adhesion values.

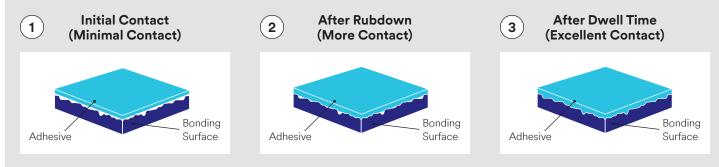


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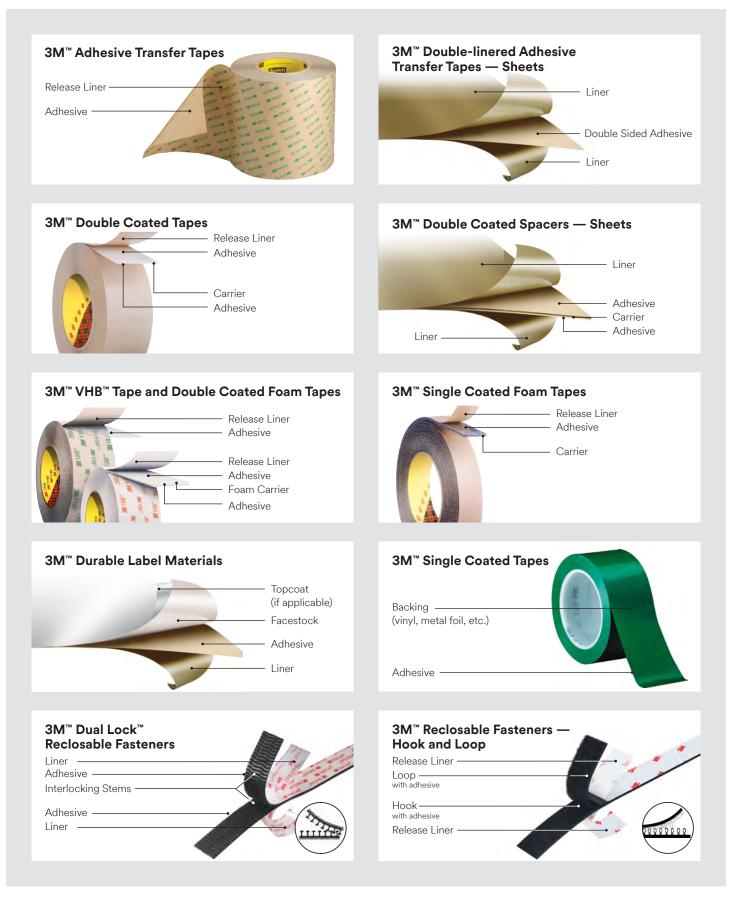
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Expect performance. Spec 3M.

Pressure Sensitive Adhesive Constructions



Double Sided Tapes

Make your design a reality.

Whether you're bonding similar or different substrates, our double sided tapes provide the strength, conformability, adhesion and aesthetic requirements you need to make your project successful.

Learn more at: 3M.com/DoubleSidedTape



Bond glass to plastic.

Help make sales soar with anti-lifting, drop-resistant 3M[™] Double Coated Tape 93015LE.

Tapes created for performance.

A double sided tape has pressure-sensitive adhesive exposed on both sides, allowing two parts to be bonded together by the tape between them. A carrier that holds adhesive can range from a film as thin as a fraction of a millimeter up to a thick foam that helps damp vibrations. Pressure sensitive adhesives can meet specific needs from low-tack, which allows for repositioning, all the way up to permanent bonding solutions. A double sided tape that has a carrier can be produced with the same adhesive on both sides, or with different adhesives to meet the bonding requirements of different substrates.

Benefits of a 3M[™] Double Sided Tape.

While the characteristics of adhesive families and individual tapes vary, double sided tapes generally offer these benefits to your production.



Faster Assembly Time

Tape is easy to apply by hand or with automation. No waiting for adhesive to cure or mechanical fastening to be completed.



Design Flexibility

Conformability, gap filling, invisible bond lines-the flexible design options you need.



Immediate Handling Strength

Immediate handling strength with no cure time. Assembled parts move faster to the next step.



LSE and Dissimilar Materials Bonding

Versatile for lightweight designs and hard-to-stick-to surfaces.



Clean Aesthetics and Reduced Product Bulk

Virtually invisible bond lines without protruding fasteners. Replaces mechanical fasteners with thinner, lighter materials.



Moisture Intrusion Prevention

Provides adhesion to both substrates, helping prevent moisture from penetrating the bond.

Making the best choice for the needed performance.

What materials are you bonding? How will the assembly be used?

- Type of substrate or hard-to-bond materials
- Bonding dissimilar materials
- Configuration of your part (design/shape)
- Appearance and aesthetic considerations
- Need for disassembly for maintenance or service

How will the product be processed?

- Need high-speed bonding
- Need to be able to reposition
- Will be subjected to vibration
- Requires heat and/or pressure for bonding
- Desire to cut costs, increase production, or simplify operation

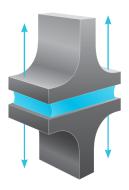
How do you need the adhesive to perform?

- Match strength to stresses/ combination of stresses: tensile, shear, cleavage and peel
- Flexibility
- Maintain surface integrity
- Bond and seal
- Resist harsh environmental conditions

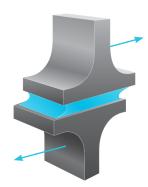
Learn more at: 3M.com/DoubleSidedTape

Design for challenges.

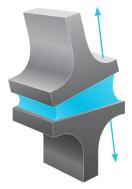
Regardless of the joint type used, it's important to understand the different stresses that are imparted onto a bonded assembly.



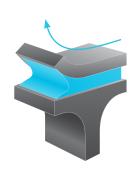
Tensile is pull exerted equally over the entire joint. Pull direction is straight and away from the adhesive bond.



Shear is pull directed across the adhesive, forcing the substrates to slide over each other.



Cleavage is pull concentrated at one edge of the joint, exerting a prying force on the bond. The other edge of the joint is theoretically under zero stress.



Peel is concentrated along a thin line at the edge of the bond where one substrate is flexible. Once peeling has begun, the stress line stays out in front of the advancing bond separation.

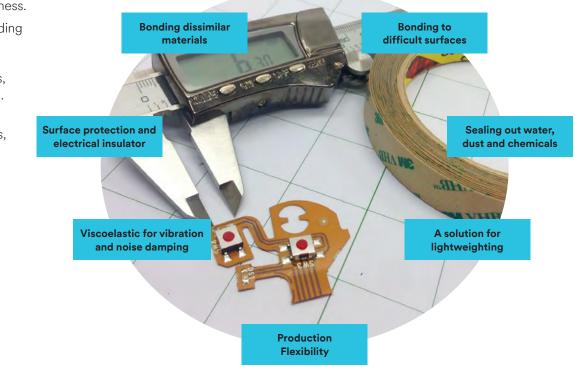
Thin, clean designs made easy. Pressure Sensitive Adhesives (PSA)

A quick peel and stick that offers consistent bondline thickness.

PSAs easily distribute loading over the entire bondline. They are low odor so no ventilation is needed. Plus, there's no curing required.

Production flexibility: Hand apply, ATG, die cuts, automation, or roll-to-roll processing.

Learn more at: 3M.com/Bonding





The bond between concept and reality.

Acrylic adhesives open the door to solving the challenges of speed, strength and product shelf life. Now it's time to dream bigger. 3M Go-To Adhesives are flagged throughout this catalog with the red circle next to product numbers.





100MP

3M[™] High-Performance Acrylic Adhesive 100MP

Higher peel strength than most acrylic formulations. Exceptional shear strength, even at high temperatures.

200MP

3M[™] High-Strength Acrylic Adhesive 200MP

Shear strength with versatility for bonding a variety of commonly used substrates. Great for outdoor applications and repeat use.



300LSE

3M[™] Low Surface Energy Acrylic Adhesive 300LSE

For hard-to-bond surfaces. Great solution for dissimilar material bonding. Holds securely and performs reliably — giving you more freedom to imagine. To design. To build.



300MP+

3M[™] High-tack Acrylic Adhesive 300MP+

For hard-to-bond and textured materials such as foams and textiles.

Giving you more freedom to imagine.

Attach. Seal. Reduce noise. Expand your materials—and your design possibilities. Advanced adhesives keep it together under the harshest of conditions, while you feel the thrill of defying creative limitations.

100MP

Built for extremes. Indoor and out.

Adhesives that deliver in high temperatures and other challenging environments. Exceptional sheer strength even at elevated temperatures; outstanding solvent resistance.



Brought together by design.

Best for bonding metals and high surface energy substrates. Anti-lifting for precision and staying-power performance on curved surfaces.



300LSE

Thin can do what you can imagine.

Make your design a reality. Bond plastic to metals. Rubber to plastic. Even foam to chrome. Open your mind to new design possibilities.



300MP+

It's a textured world. Design for it.

Attach, seal, reduce noise. This adhesive is for bonding foam and fabric.



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er	Tap
ranste	ted
_	Coat
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Expect performance. Spec 3M.

Adhesive Families Color coded to make cross referencing between charts easier.



100MP

100HT

100 High Temperature Acrylic

- Up to 450°F (232°C) short-term heat resistance and excellent solvent resistance
- High peel strength compared to other acrylic formulations
- Exceptional shear strength even at elevated temperatures
- Exhibits low outgassing characteristics

100MP High Performance Acrylic

- Up to 500°F (260°C) short-term heat resistance and outstanding solvent resistance
- Higher peel strength than most other acrylic formulations
- Exceptional shear strength even at elevated temperatures

100HT Ultra High Temperature Acrylic

- Up to 550°F (288°C) short-term heat resistance and outstanding solvent resistance
- Higher peel strength than most other acrylic formulations
- Exceptional shear strength even at elevated temperatures



200MP High Performance Acrylic

- Up to 400°F (204°C) short-term heat resistance and excellent solvent resistance
- Outstanding adhesion to metal and high surface energy plastics
- Excellent shear strength to resist slippage and edge lifting
- Short-term repositionability for placement accuracy

220 Industrial Acrylic

- Up to 350°F (177°C) short-term heat resistance and good chemical resistance
- Good shear strength and chemical resistance for general purpose industrial applications
- Good adhesion to most metal and high surface energy plastics
- 290

220

290 Low Outgassing Acrylic

- Up to 450°F (232°C) short-term heat resistance
- Exceeds most OEM specifications for outgassing and long-term performance
- High peel strength compared to other acrylic formulations
- Exceptional shear strength even at elevated temperatures



300 High Strength Acrylic

- Up to 250°F (121°C) short-term heat resistance
- High initial adhesion especially to low surface energy plastics
- Quick flowing to speed lamination of textured plastics, foams, fabrics and coated papers

300FR Flame Retardant

- Meets various flame retardancy standards such as UL94 V-2, F.A.R. 25.853, and FMVSS 302
- Similar adhesive properties to adhesive 300 family
- Good adhesion to a wide variety of surfaces including LSE plastics, foams and fabrics



300FR

300LSE Low Surface Energy Acrylic

- Up to 300°F (149°C) short-term heat resistance
 Outstanding adhesion to low surface energy plastics,
- powder coated paints and lightly oiled metals
- Good chemical and humidity resistance

300MP+ High-tack Acrylic

• Designed especially to bond most plastics, fabrics and foams



320AF

340

350

300SF Solventless

- Excellent initial adhesion
- Ideal for use on coated papers and other smooth surface materials
- Manufactured using a solventless adhesive coating process

320AF Acid Free

- Provides a consistently strong bond across a range of temperatures up to 180°F (82°C)
- PH balance between 7.0 and 8.5 so it will not discolor and damage papers, photographs and other acid sensitive materials

340 High-tack Acrylic

- Up to 180°F (82°C) short-term heat resistance
- Good bonding to foam and other substrates
- High-tack adhesive
- Medium shear strength

350 High Performance Acrylic

Up to 450°F (232°C) short-term heat resistance
Excellent solvent resistance and adhesion to LSE materials

🔀 Go-To Product

360 Acrylic Adhesive

- Up to 250°F (121°C) short-term heat resistance
- Outstanding adhesion to polypropylene and LSE plastics as well as HSE materials
- Very quick bonding dwell time to achieve full adhesion level



360

375 High Performance Double Coated

- Up to 300°F (149°C) short-term heat resistance
 Good adhesion to both high and low surface
- energy substrates
- Excellent initial tack



400 Acrylic Adhesive

- Up to 250°F (121°C) short-term heat resistance
- Good low temperature performance and peel strength on many surfaces
- Excellent adhesion to uncoated papers
- Clarity and UV resistance for window label applications

700
Series
Series

700 Series Synthetic Rubber

- Up to 200°F (93°C) short-term heat resistance
- Good adhesion to low surface energy substrates
- For indoor and room temperature applications



800 Series Natural Rubber

- Up to 200°F (93°C) short-term heat resistance
- Offers good adhesion to a variety of surfaces
- For indoor and room temperature applications



900R Miscellaneous Rubber Adhesive Group

- Excellent initial adhesion and high bond to a variety of foams
- Utility rubber-based adhesive ideal for the foam fabricating industry



1000 Series Repositionable Acrylic

- Good holding to many surfaces
- Clean removal



2000MP Optically Clear Acrylic

- Visual accuracy light transmission > 99%, free of birefringence, refractive index of 1.47
- High cohesive and peel strengths
- High temperature, humidity and UV light resistance
- Long-term durability without yellowing, delaminating or degrading

Electrically Conductive

- Good initial tack, non-corrosive adhesive
- Built-in conductive tape
- Helps reinforce tape
- Low electrical resistance with good conductivity



Electric

Low VOC Acrylic

 Low emission adhesives that meet indoor air quality standards for automotive and construction markets
 Low odor



Plasticizer Resistant

- Bonds to many flexible vinyls
- Outstanding resistance to effects of plasticizer migration



Silicone

Screen Printable Adhesive

- For selective placement of pressure sensitive adhesive using screen print technology
- Available as UV curable or water based

Silicone Adhesive

- Up to 500°F (260°C) short-term heat resistance
- Outstanding solvent resistance
- Adheres to silicone without priming



Thermally Conductive

- High-performance acrylic adhesive with highly conductive ceramic particles
- For an extremely reliable thermal interface
- Highly conformable

Other

Other Adhesive Family

• Newly developed or specialty adhesives that do not fit in the current adhesive family definitions

3M[™] Double Sided Tapes Selection Guide Based on Surface Energy

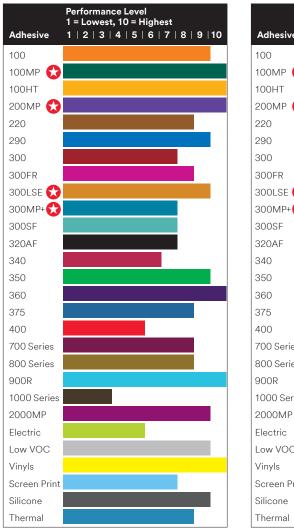
These charts are based on relative adhesion within each given surface energy category.

Metals	Surface Energy (Dynes/cm)
Copper	1103
Aluminum	840
Zinc	753
Tin	526
Lead	543

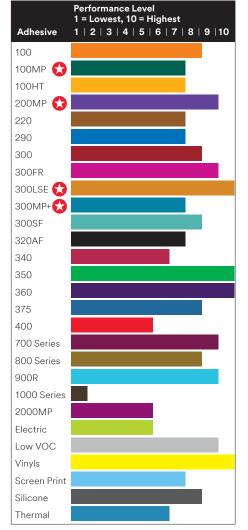
High Surface Energy (HSE) Plastics	Surface Energy (Dynes/cm)
Polyimide	50
Phenolic	47
Nylon®	46
Alkyd Enamel	45
Polyester	43
Epoxy Paint	43
Polyurethane	43
ABS	42
Polycarbonate	42
PVC	39
Modified PPE Resin	38
Acrylic	38

Low Surface Energy (LSE) Plastics	Surface Energy (Dynes/cm)
PVA	37
Polystyrene	36
Acetal	36
EVA	33
Polyethylene	31
Polypropylene	29
PVF	28
PTFE	18
Powder Coatings	Broad Range

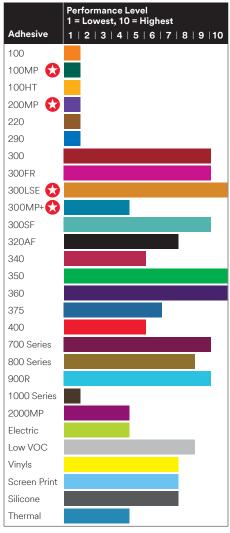
Adhesive Performance on Metals



Adhesive Performance on High Surface Energy (HSE) Plastics



Adhesive Performance on Low Surface Energy (LSE) Plastics



Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

🔂 Go-To Product

Adhesive Properties

		Adhesive F	Propertie	s				Env	ironmer	ntal Performa	nce	Temperature °F		
		Peel	Sh	ear		Adhesion	to:			stance to:		Temp	erature °F (°C)
Adhesive Family	Initial	Ultimate	Room Temp.	150°F	Metal	HSE Plastic	LSE Plastic	Chemical	Ultra Violet	Plasticizers	Humidity	Minimum Application	Service Low⁺	Service High [†]
Acrylic Adhesives														
100	3	9	10	10	9	8	1	9	10	5	10	50 (10)	-40 (-40)	450 (232)
100MP 😸	4	10	10	10	10	7	1	10	10	5	10	50 (10)	-40 (-40)	500 (260)
100HT	4	10	10	10	10	7	1	10	10	5	10	50 (10)	-40 (-40)	550 (288)
200MP 😸	4	10	10	10	10	9	1	9	10	5	10	50 (10)	-40 (-40)	400 (204)
220	4	8	10	9	8	7	1	8	10	4	8	50 (10)	-40 (-40)	350 (177)
290	3	9	10	10	9	8	1	9	10	5	10	50 (10)	-40 (-40)	350 (177)
300	6	7	4	1	7	8	9	6	7	3	8	50 (10)	-40 (-40)	250 (121)
300FR	6	7	4	1	8	9	9	6	7	3	8	50 (10)	-40 (-40)	250 (121)
300LSE 🔶	7	9	8	8	9	9	10	8	7	4	9	50 (10)	-40 (-40)	300 (149)
300MP+ 😒	6	7	5	5	7	7	4	—	_	_	9	50 (10)	-40 (-40)	_
300SF	6	7	4	1	7	8	9	6	7	3	8	50 (10)	-40 (-40)	350 (177)
320AF	7	7	4	1	7	7	7	6	6	3	8	50 (10)	-40 (-40)	250 (121)
340	6	7	6	5	6	6	5	7	7	4	9	50 (10)	-40 (-40)	180 (82)
350	7	9	8	8	9	10	10	8	7	4	9	50 (10)	-40 (-40)	450 (232)
360	10	10	8	5	10	10	10	8	7	4	8	50 (10)	-40 (-40)	250 (121)
375	6	8	8	8	8	8	6	7	7	5	8	50 (10)	-10 (-23)	300 (149)*
400	4	5	5	4	5	5	5	5	10	4	8	50 (10)	-60 (-51)	250 (121)
Rubber Adhesives														
700 Series	7	9	10	2	8	9	9	2	4	1	9	50 (10)	-40 (-40)	200 (93)
800 Series	9	10	6	2	8	8	8	1	1	1	1	50 (10)	-40 (-40)	180 (82)
900R	10	10	5	4	10	9	9	4	4	3	1	50 (10)	-40 (-40)	200 (93)
Other Adhesives										1				1
1000 Series	2	3	3	3	3	1	1	2	7	3	4	50 (10)	-20 (-29)	250 (121)
2000MP Series	4	6	6	5	9	5	4	7	10	5	10	50 (10)	-40 (-40)	350 (177)
Electric	3	5	5	4	5	5	4	7	7	5	10	50 (10)	-20 (-29)	160 (71)
Low VOC (Acrylic)	7	10	8	7	9	8	8	8	8	5	10	50 (10)	-40 (-40)	350 (177)
Vinyls	4	6	5	5	10	10	7	5	7	10	10	50 (10)	-40 (-40)	250 (121)
Screen Printable	5	6	6	5	7	7	7	5	6	4	5	50 (10)	-40 (-40)	300 (149)
Silicone	4	5	10	8	9	8	7	10	10	3	10	40 (4)	-60 (-51)	500 (260)
Thermally Conductive	3	5	5	4	8	6	4	7	7	5	10	50 (10)	20 (-6.7)	185 (85)

[†]Reflects lowest service temperature that bond holds and highest temperature for short periods (minutes, hours).

*Service temperature dependent on carrier. See technical data page for further information.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

😡 Go-To Product

Liner Reference Chart

3M offers paper and film release liners in a number of different constructions and weights to meet various process requirements.

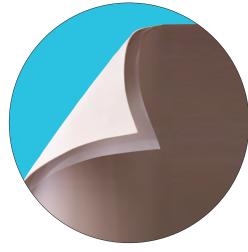
Paper liners include densified kraft (DK) to reduce the edge burr on metal plates and for rotary processing, Extended DK liners (XL) and polycoated kraft (PCK) for moisture stability to resist wrinkling and curling are also available on selected tapes.

Film liners add strength in high-speed processing and dispensing and are available for clean room processing. They also offer high clarity for graphic inspection.

Product Group	Basis Weight	Caliper mils	Liner Type	Description	High Tensile Strength	Humidity Resistance	Rotary Processing	Kiss Cutting	Steel Rule
	43#	2.5	Densified Kraft (DK)	Silicone treated on one side for use as a second liner to protect adhesive during selective die-cutting. Printable.					
	55#	3.2	Densified Kraft (DK)	Caliper-controlled hard liner for consistent base in rotary printing and die-cutting of labels.					•
	60#	3.5	Densified Kraft (DK)	Hard dense liner reduces edge burr in hand tool processing of metal plates.					•
	62#	3.7	Densified Kraft (DK)	Heavier version of 60#.			•		•
	58#	3.0	Glassine	Hard dense liner that is resistant to water and oils.	-	•	•		•
Paper Liners	60#	3.2	Glassine	Hard dense liner that is resistant to water and oils.		•			•
	58#	4.2	Polycoated Kraft (PCK)	Moisture stable. Flat-bed die-cutting.		•			•
	58#	4.2	Polycoated Kraft (PCK) Lay-flat	Excellent moisture stability for lay-flat processing.		•	-		•
	78#	5.7	Polycoated Kraft (PCK)	Extra tough liner for tear resistance. Conformable for EMI/RFI shielding applications. Moisture stable. Flat-bed die-cutting.	-	•			•
	78#	6.0	Extensible Polycoated Kraft (EK)	Extra tough liner for tear resistance. Conformable for EMI/RFI shielding applications.	-	•		-	•
	83#	6.2	Polycoated Kraft (PCK)	Excellent moisture stability for lay-flat processing. Thicker caliper for kiss-cutting and steel rule die-cutting.					•
	-	2.0	Clear Polyester (PET)	High strength reduces breakage during die-cutting and dispensing.					
Film Liners	-	3.0	Clear Polyester (PET)	High strength reduces breakage during die-cutting and dispensing.					•
	-	3.0	Clear High Density Polyethylene (HDPE)	Silicone treated for easy release. Clarity for see-through applications.		•			•

3M[™] Secondary Release Liners

				Construction		
Product Group	Product	Description/Application Ideas	Caliper (mils)	Liner	Master Size	Printable
	4988	Neutral-colored, polycoated liner. Release coat one side.	6.4	83# Polycoated Kraft, Neutral Color	48" width – length can vary	Yes
	4994	Caliper-controlled liner for rotary die-cutting. Release coated two sides.	3.2	55# Densified Kraft, White	54" width – length can vary	No
	4996	Clear film is ideal for graphics inspection of backlit panels. Release coat one side.	1.4	Polyester Film, Clear	54" width – length can vary	Yes
	4997	Heavy liner ideal for kiss-cutting and lay-flat applications. Release coat one side.	4.0	70# Flatstock, Clear	48" width – length can vary	No
Silicone Liners	4998	Release coat two sides (matte).	4.2	58# Polycoated Kraft, Tan	60" width – length can vary	No
	4999	Caliper controlled liner for rotary die-cutting. Release coat one side.	3.2	55# Densified Kraft, White	54" width – length can vary	Yes
	5002	Clear polyester film for rotary cutting. Release coat one side.	2.0	Polyester Film, Clear	60" width – length can vary	No
	5002D	Clear polyester film for rotary cutting. Release coat two sides.	2.0	Polyester Film, Clear	54" x 360 yd	No
	5051	Special PCK liner for double linering. Release coat one side.	4.2	58# Polycoated Kraft	48" width – length can vary	Yes



Preventing premature adhering. 3M[™] Release Liners deliver a flexible solution for a wide range of applications and adhesive products.

3M[™] Adhesive Transfer Tapes

				Lin	er ²	-			Adh	esion		e e	Tempe	erature
Adhesive Family¹	Product	Description/Application Ideas	Adhesive Caliper (mils)	Туре	Caliper (mils)	Master Size*	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
	941	Graphic attachment for low odor appliance applications.	2	58# PCK	4.2	48" x 180 yd	UL	9	8	1	2	9	-40 (-40)	450 (232)
	965	Fuel and hydraulic line labels. Excellent chemical resistance. Aerospace.	2	55# DK	3.2	48" x 180 yd	_	9	8	1	2	9	-40 (-40)	450 (232)
100	966	Meets NASA guidelines for low outgassing material for spacecraft. Flex circuit attachment. High temp.	2	62# DK	3.5	48" x 180 yd	UL MH	9	8	1	2	9	-40 (-40)	450 (232)
High Temperature Acrylic	966FL	Meets NASA guidelines for low outgassing material for spacecraft. Flex circuit attachment. Static dissipative PET liner.	2	PET	3.0	48" x 180 yd	UL MH	9	8	1	2	9	-40 (-40)	450 (232)
	9461P	Thinner version of laminating adhesive 9462P.	1	55# DK	3.2	48" x 360 yd	_	9	8	1	2	9	-40 (-40)	450 (232)
	9462P	Laminating adhesive 966 on a caliper-controlled liner for rotary die-cutting.	2	55# DK	3.2	48" x 360 yd	UL	9	8	1	2	9	-40 (-40)	450 (232)
	F9460PC	High-performance industrial joining and metal fabrication.	2	58# PCK	4.2	60" x 180 yd	UL MH	10	7	1	2	10	-40 (-40)	500 (260)
100MP _{High}	F9469PC	High-performance industrial joining and metal fabrication.	5	58# PCK	4.2	60" x 180 yd	UL MH	10	7	1	2	10	-40 (-40)	500 (260)
Performance Acrylic ³	F9473PC	High-performance industrial joining and metal fabrication.	10	58# PCK	4.2	60" x 180 yd	ULMH	10	7	1	2	10	-40 (-40)	500 (260)
100HT Ultra High	9082	Excellent heat resistance in high temp environments. For applications that require both higher processing and operating temperatures.	2	White DK Liner	3.2	48" x 180 yd	UL	10	7	1	2	10	-40 (-40)	550 (288)
Temperature Acrylic	9085	Thicker version of 9082.	5	White DK Liner	3.2	48" x 180 yd	_	10	7	1	2	10	-40 (-40)	550 (288)
	9085UV	Same as 9085 but with UV light detectable adhesive.	5	58# PCK	4.2	48" x 360 yd	_	10	7	1	2	10	-40 (-40)	550 (288)
	467MC	Same as 467MP with a paper MicroChannel liner to aid in bubble- and wrinkle-free graphic attachment.	2	58# PCK	4.2	54" x 180 yd	UL	10	9	1	3	9	-40 (-40)	400 (204)
	467MP	Graphic attachment and general industrial joining. Industry standard.	2	58# PCK	4.2	60" x 600 yd	UL MH	10	9	1	3	9	-40 (-40)	400 (204)
<	467MPF	Polyester liner for rotary processing of graphic and die cut parts.	2	PET	2.0	54" x 180 yd	UL	10	9	1	3	9	-40 (-40)	400 (204)
200MP High Performance	468MC	Same as 468MP with a paper MicroChannel liner to aid in bubble- and wrinkle-free graphic attachment.	5	58# PCK	4.0	54" x 180 yd	_	10	9	1	3	9	-40 (-40)	400 (204)
Acrylic	468MP	Industry standard for graphic attachment and die cut parts.	5	58# PCK	4.2	60" x 600 yd	UL MH	10	9	1	3	9	-40 (-40)	400 (204)
	468MPF	Thicker version of 467MPF.	5	PET	2.0	54" x 180 yd	UL	10	9	1	3	9	-40 (-40)	400 (204)
	9667MP	Same as 467MP on heavy, lay-flat liner for kiss-cutting.	2	78# PCK	5.7	54" x 180 yd	UL	10	9	1	3	9	-40 (-40)	400 (204)
	9668MP	Same as 468MP on heavy, lay-flat liner.	5	78# PCK	5.7	54" x 360 yd	UL MH	10	9	1	3	9	-40 (-40)	400 (204)

1. More information on pages 10–13. 2. More information on page 14. 3. Products in this platform are 3M[™] VHB[™] Tapes offering our highest strength. M^H meets MiI-P-19834B Type I.

*Select products have multiple master sizes.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

🔂 Go-To Product

3M[™] Adhesive Transfer Tapes (cont.)

				Lin	er²			_	Adhe	esion		_ e	Tempe	erature
Adhesive Family¹	Product	Description/Application Ideas	Adhesive Caliper (mils)	Туре	Caliper (mils)	Master Size*	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
220	9502	Economical attachment of graphics and industrial joining.	2	58# PCK	4.2	60" x 360 yd	UL	8	7	1	2	8	-40 (-40)	350 (177)
Industrial Acrylic	9505	Thicker version of 9502 for textured surfaces.	5	58# PCK	4.2	60" x 360 yd	UL	8	7	1	2	8	-40 (-40)	350 (177)
290 Low	501FL	Ultra-clean adhesive for low outgassing applications.	1	PET	2.0	23.5" x 180 yd	_	9	7	1	2	9	-40 (-40)	450 (232)
Outgassing Acrylic	502FL	Ultra-clean adhesive for low outgassing applications.	2	PET	2.0	23.5" x 180 yd	_	9	7	1	2	9	-40 (-40)	450 (232)
	927	Attach gaskets and a variety of industrial foam and LSE materials.	2	60# DK	3.5	48" x 180 yd	_	7	9	9	9	6	-40 (-40)	250 (121)
	950	Thicker version of 927.	5	58# Glassine	3.2	48" x 180 yd	UL	7	9	9	9	6	-40 (-40)	250 (121)
	950EK	950 with Extensible Kraft liner.	5	78# EK	5.7	48" x 180 yd	_	7	9	9	9	6	-40 (-40)	250 (121)
	9458	Thin, high-tack adhesive for rotary processing HSE and LSE parts.	1	55# DK	3.2	54" x 360 yd	UL	7	9	9	9	6	-40 (-40)	250 (121)
300 High Strength	9459W	White adhesive version of laminating adhesive.	1.5	55# DK	3.2	48" x 360 yd	UL	7	9	9	9	6	-40 (-40)	250 (121)
Acrylic	9471	For smooth LSE plastics.	2	60# DK	3.5	48" x 180 yd	ULMH	7	9	9	9	6	-40 (-40)	250 (121)
	9472	5.0 mil version of 9471. For textured surfaces.	5	60# DK	3.5	48" x 180 yd	ULMH	7	9	9	9	6	-40 (-40)	250 (121)
	9671	Heavier linered version of 9471 for easy handling, lay-flat properties.	2	83# PCK	6.2	48" x 180 yd	ULMH	7	9	9	9	6	-40 (-40)	250 (121)
	9672	Heavier linered version of 9472 for easy handling, lay-flat properties.	5	83# PCK	6.2	48" x 180 yd	UL	7	9	9	9	6	-40 (-40)	250 (121)
	9372W	Flame retardant transfer tape with moisture stable liner.	2	83# PCK	6.2	48" x 360 yd	_	8	9	9	9	6	-40 (-40)	250 (121)
300FR Flame Retardant	9372DKW	Flame retardant transfer tape with rotary die-cuttable liner.	2	55# DK	3.2	48" x 180 yd	_	8	9	9	9	6	-40 (-40)	250 (121)
Retardant	9375W	Flame retardant transfer tape with moisture stable liner.	5	83# PCK	6.2	48" x 180 yd	UL	8	9	9	9	6	-40 (-40)	250 (121)
300SF	XT2105	Attach coated papers and plastics in printing and graphic applications.	2	55# DK	3.2	48" x 60 yd	_	6	9	9	4	5	-40 (-40)	200 (93)
3005F Solvent Free	XT2112	Perfect for plastics assembly and for attaching heavy paperboards and corrugated in P.O.P. and packaging applications.	5	55# DK	3.2	48" x 60 yd	_	6	9	9	4	5	-40 (-40)	200 (93)

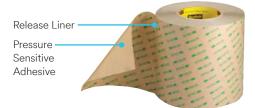
1. More information on pages 10–13. 2. More information on page 14.

M^H meets Mil-P-19834B Type I.

*Select products have multiple master sizes.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



Made for easy handling. Adhesive Transfer Tape (ATT or unsupported tape) is composed of a thin film of adhesive with a liner over the top so it can be easily handled.

3M[™] Adhesive Transfer Tapes (cont.)

				Lin	er²				Adh	esion		- 8	Tempe	erature
Adhesive Family ¹	Product	Description/Application Ideas	Adhesive Caliper (mils)	Туре	Caliper (mils)	Master Size*	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
	9453FL	Film linered version of 9453LE for rotary processing.	3.5	PET	2.0	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
	9453LE	A 3.5 mil version of 9471LE for application to rough surfaces.	3.5	58# PCK	4.2	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
	9471FL	Film linered version of 9471LE for rotary processing.	2	PET	2.0	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
<	9471LE	Bonds graphics to powder coatings, LSE plastics and oily materials.	2	58# PCK	4.2	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
300LSE Low Surface Energy	9472FL	A 5 mil version of 9471LE with film liner for textured surfaces.	5	PET	2.0	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
Acrylic	9472LE	Thicker adhesive for textured LSE plastics and powder coatings.	5	58# PCK	4.2	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
	9653LE	Heavy linered 9453LE for easy handling and lay-flat properties.	3.5	83# PCK	6.2	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
	9671LE	Heavy linered 9471LE for easy handling and lay-flat properties.	2	83# PCK	6.2	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
	9672LE	Heavy linered 9472LE for easy handling and lay-flat properties.	5	83# PCK	6.2	54" x 360 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
	9772WL+	Provides excellent bond to various fabricated foams, fabrics and substrates.	2	96# PCK	7.0	60" x 360 yd	_	7	7	4	9	_	-40 (-40)	_
3 00MP+	9773WL+	Provides excellent bond to various fabricated foams, fabrics and substrates.	3	96# PCK	7.0	60" x 360 yd	-	7	7	4	9		-40 (-40)	-
High-tack Acrylic	9774WL+	Provides excellent bond to various fabricated foams, fabrics and substrates.	4	96# PCK	7.0	60" x 360 yd	_	7	7	4	9	-	-40 (-40)	-
	<mark>9775WL+</mark>	Provides excellent bond to various fabricated foams, fabrics and substrates.	5	96# PCK	7.0	60" x 360 yd	-	7	7	4	9	-	-40 (-40)	-
	9442	Excellent temperature and solvent resistance. High bond to low surface energy substrates.	2	55# DK	3.2	48" x 180 yd	UL	9	10	10	9	8	-40 (-40)	450 (232)
	9445	Thicker version of 9442.	5	55# DK	3.2	48" x 180 yd	UL	9	10	10	9	8	-40 (-40)	450 (232)
350 _{High}	9482PC	High-tack and shear strength. Excellent adhesion to plastics and foams.	2	58# PCK	4.2	48" x 180 yd	UL	9	10	10	9	8	-40 (-40)	450 (232)
Performance Acrylic	9485EK	Thicker version of 9482PC with an Extensible Kraft liner.	5	78# EK	5.7	48" x 180 yd	UL	9	10	10	9	8	-40 (-40)	450 (232)
	9485PC	A 5 mil version of 9482PC.	5	58# PCK	4.2	48" x 180 yd	UL	9	10	10	9	8	-40 (-40)	450 (232)
	<mark>9675</mark>	Heavy linered version of 9485PC for easy handling, lay-flat properties.	5	83# PCK	<mark>6.2</mark>	48" x 180 yd	UL	9	10	10	9	8	-40 (-40)	450 (232)

1. More information on pages 10–13. 2. More information on page 14.

*Select products have multiple master sizes.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

😡 Go-To Product

3M[™] Adhesive Transfer Tapes (cont.)

				Lin	er ²				Adh	esion		- 8	Tempe	erature
Adhesive Family ¹	Product	Description/Application Ideas	Adhesive Caliper (mils)	Туре	Caliper (mils)	Master Size*	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
360	9626	Quick stick with high bond strength. Designed for use with 3M [™] Label Component Systems.	2	Glassine	3.2	54" x 540 yd	_	10	10	10	9	8	-40 (-40)	250 (121)
Acrylic Adhesive	9627	Quick stick with high bond strength. Designed for use with 3M [™] Label Component Systems.	5	Glassine	3.2	54" x 180 yd	_	10	10	10	9	8	-40 (-40)	250 (121)
	463	High-tack and excellent adhesion to most paper stocks. For automatic dispensing.	2	58# Glassine	3.5	48" x 180 yd	_	5	5	5	4	5	-60 (-51)	250 (121)
400 Acrylic	465	Same as 463, but with easy liner release for manual or hand application.	2	60# DK	3.5	48" x 180 yd	_	5	5	5	4	5	-60 (-51)	250 (121)
Adhesive	9457	Adhesive with long-term stability, excellent outdoor performance and UV resistance. Adhesive 400 is best if necessary to apply at cooler temperatures.	1	55# DK	3.2	54" x 360 yd	UL	5	5	5	4	5	-60 (-51)	250 (121)
Mand	F9465PC	Vinyl plasticizer resistant adhesive.	5	58# PCK	4.2	54" x 360 yd	_	10	10	7	5	5	-40 (-40)	200 (93)
Vinyl	F9467U	Vinyl plasticizer resistant adhesive.	3.5	58# PCK	4.2	54" x 180 yd		10	10	7	5	5	-40 (-40)	200 (93)
Other	97053	Micro scrim reinforced adhesive transfer tape has excellent quick stick for permanent bond applications on plastics, metals, non-wovens, felts and foams.	2.5	50# DK	3.0	60" x 720 yd	_	6	6	5	5	5	-40 (-40)	175 (79)

1. More information on pages 10-13. 2. More information on page 14.

M^H meets Mil-P-19834B Type I.

*Select products have multiple master sizes.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



Attach upholstery material to high-density foam. Keep materials together under the hardest conditions with 3M[™] Double Coated Tape 99786+ with Adhesive 300MP+.



Attach glass to metal. Hold securely for a clean finish with 3M[™] Adhesive Transfer Tape 468MP with Adhesive 200MP.

3M[™] Double Linered Adhesive Transfer Tapes

				Lin	er ²				Adhe	esion		- 8	Tempe	erature
Adhesive Family ¹	Product	Description/Application Ideas	Adhesive Caliper (mils)	Туре	Caliper (mils)	Master Size	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
	7952MP	Double linered laminating	2	58# PCK	4.2	48" x 360 yd	UL	10	9	1	3	9	-40 (-40)	400 (204)
	7952MP	adhesive 467MP.	2	58# PCK	4.2	48" x 36"	UL	10	9	1	3	9	-40 (-40)	400 (204)
	7955MP	Double linered laminating adhesive 468MP. For selective	5	58# PCK	4.2	48" x 360 yd	UL	10	9	1	3	9	-40 (-40)	400 (204)
200MP	7955141P	die-cutting.	5	58# PCK	4.2	48" x 36"	UL	10	9	1	3	9	-40 (-40)	400 (204)
High Performance Acrylic	7962MP	Laminating adhesive 7952MP on a lay-flat liner for kiss-cutting	2	78# PCK	5.7	48" x 360 yd	UL	10	9	1	3	9	-40 (-40)	400 (204)
Acrylic	7902111	and selective die-cutting.	2	58# PCK	4.2	48" x 36"	UL	10	9	1	3	9	-40 (-40)	400 (204)
	7965MP	Laminating adhesive 7955MP on a lay-flat liner for kiss-cutting	5	78# PCK	5.7	48" x 360 yd	UL	10	9	1	3	9	-40 (-40)	400 (204)
	79031415	and selective die-cutting.	5	58# PCK	4.2	48" x 36"	UL	10	9	1	3	9	-40 (-40)	400 (204)
220	9552	Economical attachment of graphics and industrial joining. Double linered version of 9502.	2.3	58# PCK	4.2	48" x 360 yd	UL	8	7	1	2	8	-40 (-40)	350 (177)
Industrial Acrylic	9555	Thicker version of 9552 for textured surfaces. Double linered version of 9505.	4.9	58# PCK	4.2	48" x 360 yd	UL	8	7	1	2	8	-40 (-40)	350 (177)
	8132LE	Double linered laminating adhesive 9471LE. For selective	2	58# PCK	4.2	48" x 360 yd	UL	9	10	10	8	8	-40 (-40)	300 (149)
300LSE	0132LE	die-cutting. Application to smooth surfaces.	2	83# PCK	6.2	48" x 36"	UL	9	10	10	8	8	-40 (-40)	300 (149)
Low Surface Energy Acrylic	8153LE	Double linered laminating adhesive 9453LE. For selective	3.5	58# PCK	4.2	48" x 360 yd	UL	9	10	10	8	8	-40 (-40)	300 (149)
Activite	OTOSLE	die-cutting. Application to rough surfaces.	0.0	83# PCK	6.2	48" x 36"	UL	9	10	10	8	8	-40 (-40)	300 (149)

1. More information on pages 10-13. 2. More information on page 14.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



Double linered adhesive transfer tapes are excellent for selective die-cutting applications.

🔂 Go-To Product

3M[™] Double Linered Adhesive Transfer Tapes (cont.)

				Lin	er²				Adh	esion		- 8	Tempe	erature
Adhesive Family ¹	Product	Description/Application Ideas	Adhesive Caliper (mils)	Туре	Caliper (mils)	Master Size	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
	8211	General purpose, high adhesion optically clear adhesive.	1	PET/PET	2.0/2.0	60" x 180 yd	_	7	9	_	_	9	-40 (-40)	350 (177)
	8212	General purpose, high adhesion optically clear adhesive.	2	PET/PET	2.0/2.0	60" x 180 yd	_	7	9	_	—	9	-40 (-40)	350 (177)
	8213	General purpose, high adhesion optically clear adhesive.	3	PET/PET	2.0/2.0	60" x 180 yd	_	7	9	_	_	9	-40 (-40)	350 (177)
2000MP Optically	8214	General purpose, high adhesion optically clear adhesive.	4	PET/PET	2.0/2.0	60" x 180 yd	_	7	9	_	_	9	-40 (-40)	350 (177)
Clear Acrylic ³	8215	General purpose, high adhesion optically clear adhesive.	5	PET/PET	2.0/2.0	60" x 180 yd	_	7	9	_	—	9	-40 (-40)	350 (177)
	8142KCL	Very soft, optically clear adhesive.	2	PET/PET	3.0/3.0	60" x 180 yd	_	—	5	_	_	6	-40 (-40)	185 (85)
	8171PCL	UV blocking, optically clear adhesive.	1	PET/PET	2.0/2.0	60" x 180 yd	_	_	4	_	_	6	-40 (-40)	185 (85)
	9483	Optically clear adhesive.	5	PET/PP	3.0/3.0	48" x 180 yd	_	9	9	_	_	9	-40 (-40)	350 (177)

1. More information on pages 10-13. 2. More information on page 14.

3. All optically clear adhesives can be manufactured in a single coated or double coated tape format upon special request.

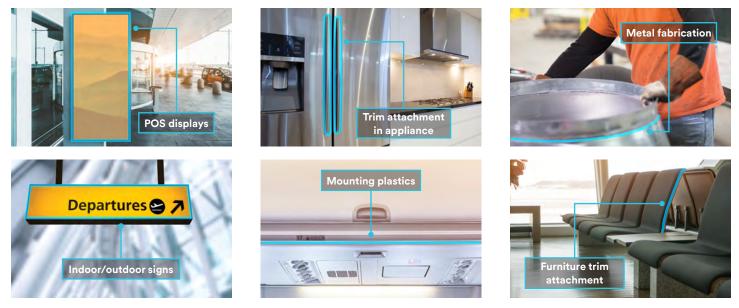
Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

3M[™] Double Coated Tape

The ideal general purpose industrial thin bond tape for use in many markets including consumer appliances, industrial machinery, transportation, signage, general industrial and consumer electronics. Bonds to many high surface energy substrates and some low surface energy substrates, including: stainless steel, HDPE, ABS, acrylic, PP, polycarbonate, aluminum and glass.

Product	Adhesive Type	Carrier Type (Thickness)	Liner Type (Thickness)	Total Tape Thickness w/o Liner	Short-Term Temperature Performance	Long-Term Temperature Performance	Color
GPT-020	Solventless Acrylic	PET 0.5 mils (12 micron)	White PCK 4 mils (100 micron)	8 mils (200 micron)	375°F (190°C)	195°F (90°C)	Transparent
GPT-020F	Solventless Acrylic	PET 0.5 mils (12 micron)	White PP 4 mils (100 micron)	8 mils (200 micron)	375°F (190°C)	195°F (90°C)	Transparent



3M[™] Double Coated Tapes



Bond curved plastic pieces to foam or plastic with 3M[™] Double Coated Tape 93015LE with Adhesive 300LSE.

					Line	er ²				Adh	esion		e e	Tempe	erature
Adhesive Family ¹	Product	Description/Application Ideas	Tape Cal. (mils)	Carrier Type	Туре	Caliper (mils)	Master Size*	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
<	92015	Double coat with thin polyester film carrier for dimensional stability and improved handling.	5.9	PET	58# PCK	4.2	54" x 180 yd	UL	10	9	1	2	9	-40 (-40)	300 (149)
200MP High Performance	9495B	Black version of 9495MP.	5.7	Black PET	58# PCK	4.2	54" x 180 yd	UL	10	9	1	2	9	-40 (-40)	300 (149)
Acrylic	9495MP	Double coated film tapes feature a thin polyester film for dimensional stability and improved handling with ease of die cutting and laminating.	5.7	PET	58# PCK	4.2	54" x 180 yd	UL	10	9	1	2	9	-40 (-40)	300 (149)
	93005LE	Very thin double coated polyester tape with good anti-lifting properties.	2.0	PET	58# PCK/ 78# PCK	4.2/ 6.2	54" x 360 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
•	93010LE	Double coated tape with a polyester film carrier for dimensional stability, improved handling and die cuttability.	3.9	PET	58# PCK	4.2	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
300LSE Low Surface Energy	<mark>93015LE</mark>	Double coated tape with a polyester film carrier for dimensional stability, improved handling and die cuttability.	<mark>5.9</mark>	PET	58# PCK	4.2	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
Acrylic	93020LE	Double coated tape with a polyester film carrier for dimensional stability, improved handling and die cuttability.	7.9	PET	58# PCK	4.2	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
	9495LE	Double coated tape with a polyester film carrier for dimensional stability, improved handling and die cuttability.	6.7	PET	58# PCK	4.2	54" x 180 yd	UL	9	9	10	8	8	-40 (-40)	300 (149)
	444	Foam lamination. Gasket attachment.	3.9	PET	55# DK	3.2	48" x 108 yd	_	7	9	9	9	6	-40 (-40)	250 (121)
300 High	444PC	Foam lamination. Gasket attachment.	3.9	PET	58# PCK	4.2	48" x 648 yd	_	7	9	9	9	6	-40 (-40)	250 (121)
Strength Acrylic	9009	Thin double coat for applications where thickness is critical.	2.1	PET	55# DK	3.2	54" x 180 yd	_	7	9	9	9	6	-40 (-40)	250 (121)
	9019	Ultra-thin double coat for applications where thickness is critical.	1.1	PET	55# DK	3.2	54" x 180 yd	_	7	9	9	9	6	-40 (-40)	250 (121)

1. More information on pages 10–13. 2. More information on page 14.

*Select products have multiple master sizes.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

😡 Go-To Product

3M[™] Double Coated Tapes (cont.)

		Liner ²			Adhesion e			Temperature							
Adhesive Family ¹	Product	Description/Application Ideas	Tape Cal. (mils)	Carrier Type	Туре	Caliper (mils)	Master Size*	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
	9832+	General purpose tape with improved temperature resistance.	4.8	PET	58# PCK	4.2	54" x 250 yd	_	7	7	4	9	_	-40 (-40)	—
300MP+	9832HL+	Same as 9832+ except with a heavier liner.	<mark>4.8</mark>	PET	83# PCK	<mark>6.2</mark>	54" x 250 yd	-	7	7	4	9	-	-40 (-40)	-
High-tack Acrylic (cont.)	99786+	Thin non-woven carrier for dimensional stability and improved handling.	5.5	Non- Woven	58# PCK Printed	4.2	48" x 180 yd	_	7	7	4	9	_	-40 (-40)	_
	99786NP+	Same as 99786+ except on an unprinted liner.	5.5	Non- Woven	58# PCK Unprinted	4.2	54" x 180 yd	_	7	7	4	9	_	-40 (-40)	_
	9456	High-tack acrylic adhesive with good adhesion to many plastics.	5.0	Tissue	55# DK	3.2	54" x 180 yd	_	6	6	5	4	8	-40 (-40)	180 (82)
340	9824	Foam lamination. Gasket attachment.	3.1	PET	55# DK	3.2	54" x 250 yd	_	6	6	5	4	8	-40 (-40)	180 (82)
High-tack Acrylic	9828	Foam lamination. Gasket attachment.	4.0	PET	55# DK	3.2	54" x 250 yd	_	6	6	5	4	8	-40 (-40)	180 (82)
	9828PC	High-tack acrylic adhesive with good adhesion to many foams.	4.0	PET	74# PCK	5.6	54" x 250 yd	_	6	6	5	4	8	-40 (-40)	180 (82)
350 High	9500PC	High performance with good chemical resistance.	5.6	PET	58# PCK	4.5	48" x 108 yd	_	9	10	10	9	8	-40 (-40)	350 (177)
Performance Acrylic	3028EK	Same as 9500PC with an Extensible Kraft liner which facilitates narrow slitting.	5.6	PET	77# EK	5.5	48" x 108 yd	_	9	10	10	9	8	-40 (-40)	350 (177)
	9628B	Outstanding quick stick and adhesion to polypropylene.	2.0	PET Black	60# Glassine	3.2	54" x 180 yd	_	10	10	10	6	8	-40 (-40)	250 (121)
	9628FL	Outstanding quick stick and adhesion to polypropylene.	2.0	PET Clear	PET Clear	2.0	54" x 180 yd	_	10	10	10	6	8	-40 (-40)	250 (121)
360 Acrylic Adhesive	9629B	Outstanding quick stick and adhesion to polypropylene.	4.0	PET Black	60# Glassine	3.2	54" x 180 yd	_	10	10	10	6	8	-40 (-40)	250 (121)
	9629FL	Outstanding quick stick and adhesion to polypropylene.	4.0	PET	PET Clear	2.0	54" x 540 yd	_	10	10	10	6	8	-40 (-40)	250 (121)
	9629PC	Outstanding quick stick and adhesion to polypropylene.	4.0	PET	58# PCK	4.2	54" x 540 yd	_	10	10	10	6	8	-40 (-40)	250 (121)
375 High	9086	Easy tearing, easy handling.	7.5	Tissue	Glassine Black Logo	3.0	54" x 750 yd	_	8	8	6	3	7	-10 (-23)	250 (121)
Performance Double Coated	9087	Thick adhesive to bond rough surfaces.	10.2	PVC	Glassine Green Logo	3.0	54" x 750 yd	_	8	8	6	3	7	-10 (-23)	185 (85)
400 Acrylic Adhesive	415	Splice papers, films and foils.	4.0	PET	60# DK	4.0	48" x 504 yd	_	5	5	5	5	5	-60 (-51)	250 (121)

1. More information on pages 10–13. 2. More information on page 14.

*Select products have multiple master sizes.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

😡 Go-To Product

3M[™] Double Coated Tapes (cont.)

					Line	er ²				Adhe	esion		l e e	Tempe	erature
Adhesive Family¹	Product	Description/Application Ideas	Tape Cal. (mils)	Carrier Type	Туре	Caliper (mils)	Master Size	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
	476	High-tack. Permanent	6.0	Film	62# DK	3.7	27" x 120 yd	_	8	9	9	3	2	-40 (-40)	150 (65)
700 Synthetic Rubber	9443NP	High-tack rubber adhesive with good adhesion to most plastics.	6.0	HDPE	60# DK	3.7	27" x 120 yd	_	8	9	9	2	2	-40 (-40)	200 (93)
	9579	Core starting on metal cores.	9.0	HDPE	62# DK	3.7	27" x 144 yd	_	8	9	9	2	2	-40 (-40)	200 (93)
860	401M	Used for mounting rubber or photopolymer printing plates.	9.0	Paper	54# DK	3.0	23.5" x 72 yd	_	8	8	8	5	1	-40 (-40)	180 (82)
Natural Rubber	410M	Core starting/end tabbing of papers, films and foils.	6.0	Paper	54# DK	3.0	23.5" x 108 yd	_	8	8	8	5	1	-40 (-40)	200 (93)
900R	9816L	General purpose, high-tack, rubber-based adhesive.	3.5	PET	60# Kraft	3.5	54" x 250 yd	_	8	8	7	7	3	-40 (-40)	150 (65)
Synthetic Rubber	9816M	General purpose, high-tack, rubber-based adhesive.	3.5	PET	74# Kraft	3.5	60" x 250 yd	_	8	8	7	7	3	-40 (-40)	150 (65)
Low VOC	9599	Acrylic adhesive for high adhesion to a variety of materials including metals and HSE plastics. Low-VOC properties suitable for interior automotive applications.	5.0	Non- Woven Tissue	PCK White	4.5	51" x 55 yd	_	9	8	8	4	7	-40 (-40)	275 (135)
LOW VOC	DCX 1018	Acrylic adhesive for high adhesion to a variety of materials including metals and HSE plastics. Low-VOC properties suitable for interior automotive applications.	5.0	Tissue	PCK White	4.2	51" x 55 yd	_	9	9	8	8	8	-40 (-40)	350 (177)

1. More information on pages 10-13. 2. More information on page 14.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



Attach closed-cell foam to galvanized steel. 3M[™] Double Coated Tape 9832HL+.



3M[™] Differential Double Coated Tapes³

					Line	er ²				Adh	esion		ie al	Tempe	erature
Adhesive Family ¹	Product	Description/Application Ideas	Tape Cal. (mils)	Carrier Type	Туре	Caliper (mils)	Master Size	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
	9731	Differential adhesive-silicone adhesive on back side. Silicone keypad attachment, printer toner cartridge refurbishing.	5.5	PET	58#PCK/ 3 mil PET	2.9/4.2	48" x 108 yd*	_	9	10	10	9	8	-40 (-40)	250 (121)
350/ Silicone Differential Adhesive	9731-50	Differential adhesive-silicone adhesive on back side which provides adhesion to many difficult to bond to substrates including silicone rubbers and low surface energy plastics.	2.0	PET	58# PCK/ 2.9 mil PET	2.9/4.2	48" x 36 yd	_	9	10	10	9	8	-40 (-40)	250 (121)
	9731-100	Differential adhesive-silicone adhesive on back side which provides adhesion to many difficult to bond to substrates including silicone rubbers and low surface energy plastics.	4.0	PET	58# PCK/ 2.9 mil PET	2.9/4.2	48" x 36 yd	_	9	10	10	9	8	-40 (-40)	250 (121)
200MP/ 300LSE	9496LE	Adhesive 200MP provides excellent bond strength to a variety of high surface energy substrates. 300LSE bonds to powder coated metals, oily metals and LSE plastic.	6.7	PET	58#/58#	4.2/4.2	24" x 36"	_	10	9	1	3	9	-40 (-40)	250 (121)
Differential Adhesive	9490LE	Adhesive 200MP provides excellent bond strength to a variety of high surface energy substrates. 300LSE bonds to powder coated metals, oily metals and LSE plastic.	6.7	PET	58#/58#	4.2/4.2	24" x 36"	_	9	10	10	1	7	-40 (-40)	250 (121)
Acrylic/ Rubber Differential Adhesive	9817M	Exposed side is acrylic, liner side is rubber-based. Excellent quick stick and adhesion to high and low energy surfaces.	3.3	PET	74# Kraft	3.5	60" x 250 yd*	_	8	8	7	6	3	-40 (-40)	175 (79)

1. More information on pages 10–13. 2. More information on page 14. 3. Second number reflects removable adhesive side. *Select products have multiple master sizes.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

3M[™] Removable/Repositionable Tapes

					Line	er ²				Adhe	esion		- e	Tempe	erature
Adhesive Family ¹	Product	Description/Application Ideas	Tape Cal. (mils)	Carrier Type	Туре	Caliper (mils)	Master Size*	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chemical Resistance	Low °F (°C)	High °F (°C)
400/ 1000	9415PC	High-tack/low tack differential adhesive. Polyester film carrier.	2	PET	77# EK	6.0	48" x 216 yd	_	5	5	5	4	5	-20 (-29)	150 (65)
Differential Adhesive ³	9416	High-tack/low tack differential adhesive. Tissue carrier.	2	Tissue	78# EK	5.6	47" x 432 yd	_	3	1	1	_	2	-20 (-29)	150 (65)
420/	9425	High-tack/medium tack for repositionable parts. Hot wire cutable.	5.5	UPVC	58# PCK	4.2	48" x 144 yd	_	8/3	7/1	1	4/1	2	-20 (-29)	125 (52)
1050 Differential Adhesive ³	9425HT	High-tack/medium tack acrylic adhesive offers permanent adhesion to one substrate with removability to the other.	5	PET	58# PCK	4.2	48" x 360 yd	_	8/3	7/1	1	4/1	2	-20 (-29)	250 (121)
400/ 1070	665	Medium tack/medium tack differential adhesive. Hot wire cutable. Linerless.	3.5	UPVC	None	_	48" x 216 yd		5	5	5	4	5	-60 (-51)	125 (52)
Repositionable Acrylic ³	666	Linered version of 665.	3.5	UPVC	LDPE	4.0	48" x 108 yd	_	5	5	5	4	5	-60 (-51)	125 (52)
100 High Temp. Acrylic	4658F	Clear, closed foam acrylic foam tape. Initially repositionable, but will create permanent bond.	31.0	None	PET	2.0	48" x 162 yd		9	8	1	_	9	-40 (-40)	450 (232)
1000 Repositionable Acrylic	94495	Low tack adhesive transfer tape laminates to various substrates to make them repositionable.	0.4	None	55# DK	2.5	48" x 360 yd	_	3	1	1	_	2	-20 (-29)	250 (121)

1. More information on pages 10–13. 2. More information on page 14. 3. Second number reflects removable adhesive side. *Select products have multiple master sizes.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.



3M[™] Membrane Switch Spacers — Double Coated Spacers



Accuracy with one touch.

Piece together the power of precision, then seal it in. Design machines that respond to your commands with the lightest touch — so we can live better, work smarter and surpass the limits of yesterday. Because that's how progress is made — and how success is felt. Membrane switches engineered with 3M[™] Acrylic Adhesives measure up to the most demanding standards. With exceptionally high shear strength, great durability and features that streamline the creative process, you can trust that your design delivers accuracy with style–and stands up to the test of time.

				Construction			
Adhesive Family ¹	Product	Description/Application Ideas	Total Thickness (mils)	Top Liner Adhesive Type Carrier Adhesive Type Bottom Liner	Caliper (mils)	Sheet Size* Master Roll	Specs
	7945MP	Excellent temperature, chemical and UV resistance. High shear strength withstands repeated stresses of switch actuation. Designed to separate switch circuitry until actuation. Both liners are printed.	5	58# PCK 200MP Polyester 200MP 58# PCK	2 1 2 	48" x 36" 48" x 360 yd	UL
	7953MP	Same characteristics as 7945MP. Primary liner is printed. Also used for graphic attachment.	3.5	58# PCK 200MP Polyester 200MP 58# PCK	48" x 36" 48" x 360 yd	UL	
	7956MP Same characteristics as 7945MP. Both liners are p		6	58# PCK 200MP Polyester 200MP 58# PCK	2 2 2 2	24" x 36" 48" x 360 yd	UL
200MP High Performance	7956MWS	7956MWS For use in graphic and non-graphic applications. Metalized vapor coat and white color provide strong opacity for facilitating backlighting and eliminating floodcoats. Single liner.		58# PCK 200MP Polyester (white, vapor coated) 200MP	2 2 2	48" x 360 yd	UL
Acrylic	7956WDL	Same characteristics as 7956MWS except in sheets.	6	58# PCK 200MP Polyester (white, vapor coated) 200MP 58# PCK	2 2 2	24" x 36" 48" x 360 yd	UL
	7957MP	Same characteristics as 7945MP, except thicker polyester. Both liners are printed.	7	58# PCK 200MP Polyester 200MP 58# PCK	 2 2 	48" x 36" 48" x 360 yd	UL
	7959MP	7959MP Same characteristics as 7945MP, except thicker polyester. Both liners are printed.		58# PCK 200MP Polyester 200MP 58# PCK	2 5 2	48" x 36" 48" x 360 yd	UL

1. More information on pages 10–13.

*Select products have multiple master sizes.

🔂 Go-To Product

3M[™] Membrane Switch Spacers — Double Coated Spacers (cont.)

				Construction			
Adhesive Family ¹	Product	Description/Application Ideas	Total Thickness (mils)	Top Liner Adhesive Type Carrier Adhesive Type Bottom Liner	Caliper (mils)	Sheet Size Master Roll	Specs
				58# PCK	_		
				200MP	2		
	7961MP	Same characteristics as 7945MP, except thicker	11	Polyester	7	48" x 36"*	UL
		polyester. Both liners are printed.		200MP	2	48" x 360 yd	
				58# PCK	_		
		For use in graphic and non-graphic applications.		58# PCK			
		Metalized vapor coat and white color provide strong		200MP	2		
	7966MWS	opacity for facilitating backlighting and	9	Polyester (white, vapor coated)	2	48" x 360 yd	UL
		eliminating floodcoats.		200MP	5		
				58# PCK			
				200MP	2		
	7966WDL	Same characteristics as 7966MWS except in sheets.	9	Polyester (white, vapor coated)	2	24" x 36"	UL
				200MP	5	48" x 360 yd	
				58# PCK	_		
				94# PCK			
-		Excellent high temperature, chemical and UV resistance.		200MP	2		
200MP	9045MP	High cohesive strength withstands repeated stresses of	5	Polyester	1 48" x	48" x 36"*	UL
High Performance		switch actuation. Heavy liner for improved handling and lay-flat properties. Both liners are printed.		200MP	2	48" x 360 yd	
Acrylic		lay hat properties, both inters are printed.		94# PCK	_		
(cont.)				94# PCK	_		
		Excellent high temperature, chemical and UV resistance.		200MP	2	0.4" 0.0"	
	9057MP	High cohesive strength withstands repeated stresses of switch actuation. Heavy liner for improved handling and	7	Polyester	3	24" x 36" 48" x 360 yd	UL
		lay-flat properties. Both liners are printed.		200MP	2	48 x 300 yu	
				94# PCK	_		
				94# PCK	—		
		Excellent high temperature, chemical and UV resistance. High cohesive strength withstands repeated stresses of		200MP	2	48" x 36"*	
	9059MP	switch actuation. Heavy liner for improved handling and	9	Polyester	5	48 x 36 vd	UL
	lay-flat properties. Both liners are printed.			2	40 x 300 yu		
				94# PCK			
				94# PCK	_		
		Excellent high temperature, chemical and UV resistance. High cohesive strength withstands repeated stresses of		200MP	2	24" x 36"	
	9061MP	switch actuation. Heavy liner for improved handling and	11	Polyester	7	48" x 360 yd	UL
		lay-flat properties. Both liners are printed.		200MP	2	10 x 000 yu	
		lay-flat properties. Both liners are printed.		94# PCK			

1. More information on pages 10-13.

3M[™] Membrane Switch Spacers — Single Coated Spacers

				Construction				
Adhesive Family ¹	Product	Description/Application Ideas	Total Thickness (mils)	Carrier Adhesive Type Bottom Liner	Caliper (mils)	Sheet Size* Master Roll	Specs	
				Polyester Film	2	24" x 36"		
	7992MP	Adhesive 200MP on one side of a clear polyester carrier.	4	200MP	2	48" x 360 yd	—	
				94# PCK		40 × 000 yu		
		Excellent temperature, chemical and UV resistance.		Polyester Film	1	40"		
	7993MP Used for lead protection, dome retainer sheets, and t		3	200MP	2	48" x 36" 48" x 360 yd	UL	
200MP		printing conductive circuitry.		94# PCK	—	40 x 300 yu		
High				Polyester	3	0.4" 26"		
Performance	7995MP	Same characteristics as 7993MP, except with thicker polyester.	5	200MP	2	24" x 36" 48" x 360 vd	UL	
Acrylic		thicker polyester.		94# PCK	—	40 x 300 yu		
				Polyester	5	0.4" 0.0"		
	7997MP Same characteristics as 7993MP, except with 7 20		200MP	2	24" x 36" 48" x 360 vd	UL		
	thicker polyester.				94# PCK		40 x 300 yu	

1. More information on pages 10–13.

*Select products have multiple master sizes.

🔂 Go-To Product

3M[™] Extended Liner Tapes

			Tape Thickness			Resis	erature stance (°C)		Rela Adhe	tive esion
Adhesive Family ¹	Product	Application Ideas	w/o Liner mils (mm)	Liner Type ²	Description	Short- Term	Long- Term	Solvent Resistance	HSE	LSE
	465XL	Seal flaps on overnight envelopes. Pressure sensitive edging on business forms. General commercial joining applications. For attaching materials that require more adhesive thickness. Larger outsert attachments.	2.0 (0.05)	60# DK Tan with Green Print	General purpose.	250 (121)	180 (82)	5	5	5
400 Acrylic	450EK	Pharmaceutical outsert attachment. For applications requiring a more tear resistant liner.	1.0 (0.025)	78# Extensible Kraft White (No Print)	General purpose.	250 (121)	180 (82)	5	5	5
Adhesive	450XL	Pharmaceutical outsert attachment. General paper attachment.	1.0 (0.025)	60# DK Tan with Green Print	General purpose.	250 (121)	180 (82)	5	5	5
	920XL	Seal flaps on poly-bags and envelopes. Pressure sensitive edging on business forms, literature, photos, posters and labels.	1.0 (0.025)	40# DK White with Red Print	General purpose.	250 (121)	180 (82)	5	5	5
600	9934XL	P.O.P. displays. Difficult splicing applications, shelf talkers, price tags, polyethylene foam bonding. High-tack to LSE materials. Indirect food-contact applications. ³	4.0 (0.10)	60# DK Tan (No Print)	High-tack to LSE materials.	150 (65)	120 (49)	5	9	9
T60SyntheticRubber	476XL	Heavy-duty sealing. Mounting of promotional items. Core starting. Closure of overnight boxes, tubes and envelopes. Indirect food-contact applications. ³	6.0 (0.16)	62# DK White with Red Print	High-tack, double coated film.	150 (65)	120 (49)	5	9	9
770 Synthetic Rubber	9925XL⁴	General mounting. P.O.P. items. Attaching tags and labels. Core starting. Permanent bonding paper-to-paper, business forms, traffic tickets, novelty items and literature. Indirect food-contact applications. ³	2.5 (0.065)	43# DK White with Black Print	Tissue reinforced. High initial adhesion to a wide variety of materials.	150 (65)	100 (41)	4	9	9
Other	3693FLE	Commonly used as a self-adhesive closure system on the longitudinal lap of jacketed pipe insulation (SSL – self seal lap) or a temporary closure system for PVC jacketing.	4.0 (0.10)	50# Paper	Aggressive, cold weather acrylic pressure sensitive adhesive (PSA) tape with a finger lift edge (FLE), meaning that on one edge the removable liner extends beyond the adhesive, making it easier to manually remove the liner.		250 (121)	_	7	6

1. More information on pages 10–13. 2. More information on page 14. 3. FDA acceptable dry ingredients listed as indirect food-contact additives when used in food packing with minimal opportunity for exposure. 4. Non-liner side is adhesive coated full width.

Easy liner starting and removal.

3M[™] Extended Liner Tapes are constructed with liners that extends beyond the width of the adhesive to provide easy liner starting. The dry edge or finger lift edge on each side of the tape makes liner removal easy.



🔂 Go-To Product

3M[™] Screen Printable Adhesives

Product Group	Product	Description/Application Ideas	Adhesion Specs	Size
Screen	SP7202	Screen printable, cures in seconds to create a pressure sensitive adhesive. Until exposed to UV, adhesive stays fluid to help reduce screen refills and cleaning. Solvent free 100% solids.	Process dependent	1 liter (6/case)
Printable Adhesives	SP7533	Water-dispersed, pressure sensitive. Excellent balance of peel and shear strength. High heat resistance.	Process dependent	1 liter (6/case) 5 liters (2/case) 1 gallon (4/case)
	SP7555	UV curable. Pressure sensitive. Excellent LSE adhesion and water resistance.	Process dependent	1 liter (6/case)



Scotch® ATG Adhesive Transfer Tapes

		Tape Thickness		Resis	erature tance (°C)			ative esion		Adhesive Transfer
Adhesive Family ¹	Product	w/o Liner mils (mm)	Description	Short- Term	Long- Term	Solvent Resistance	HSE	LSE	Application Ideas	Tape Equivalent
300	976	2.0 (0.05)	High-tack. Excellent adhesion to most plastics.	250 (121)	150 (65)	6	8	9	Attach fabric swatches in sample books.	927
High-tack Acrylic	969	5.0 (0.13)	High-tack. Excellent adhesion to most plastics.	250 (121)	150 (65)	6	8	9	Assemble P.O.P. displays. Bond trim strips to furniture or luggage. Bond labels to plastic toys. Attach gaskets or foams.	950
350 High Performance Acrylic	926	5.0 (0.13)	High performance. Excellent solvent and temperature resistance.	450 (232)	300 (149)	8	10	10	Bond fabric or trim to window blinds. Splice aluminum coils. Bond foam insulation. Mount nameplates on award plaques.	9485PC
400 General	924	2.0 (0.05)	General purpose. Excellent adhesion to most paper stocks.	250 (121)	180 (82)	5	5	5	Seal pocket in folders. Bond mat board in picture frames. Splice paper, films and foils. General purpose bindery attaching.	465
Purpose Adhesive	987*	1.7 (0.040)	General purpose. Excellent adhesion to most paper stocks.	250 (121)	180 (82)	5	5	5	Seal pocket in folders. Bond mat board in picture frames. Splice paper, films and foils. General purpose bindery attaching.	465
400/ 1000 Repositionable Adhesive ²	928	2.0 (0.05)	Differential tack. Repositionable.	180 (82)	150 (65)	5	5/1	5/1	Attach credit card in mailer. Core start/end tab paper, films and foils. Attach temporary labels.	9416

1. More information on pages 10–13. 2. Second number reflects removable adhesive side. *3M Brand.



Scotch[®] ATG Applicator 714 Used for 1/4" wide tape

Scotch® ATG Applicator 752C 3/4", 1/2" and 1/4" wide tape (1/4" adapter purchased separately)



Scotch[®] ATG Applicator 3662 Used for 2" wide tape





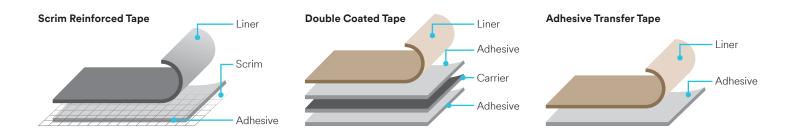
No mess, no cleanup. A touch of the finger triggers a quick, controlled application of Scotch® ATG Adhesive Transfer Tape at the same time as the liner rewinds into the applicator.



3M[™] Foam Lamination Tapes — L-Series

The perfect seal. Just the right amount of acoustic insulation. Ideal impact damping. Whatever your design challenge, there's a 3M[™] Foam Lamination Tape that can make your vision a reality. Our L1/L3 series adhesive platforms allow you to pair your design with the right foam and adhesive for your application.

Product Family	Product	Adhesive Caliper mils (mm)	Liner Type	Liner Caliper mils (mm)	Temperature Resistance °F (°C)	Roll size Width in. (mm) Length yds. (m)	Application Ideas
L1 Platform Modified acrylic adhesive	Double Coated Tape L1+DCP	3.5 (0.088)	74# white, unprinted DK	4.1 (0.104)	200°F (93°C)	Widths: 39 (1000), 54 (1372), 60 (1524) Length: 251 (230)	Foams, including cross-linked PE, EVA and microcellular urethane.
with good initial tack and peel adhesion.	Scrim Reinforced Adhesive Transfer Tape L1+RT	3.2 (0.081)	74# white, unprinted DK	4.1 (0.104)	200°F (93°C)	Widths: 39 (1000), 54 (1372), 60 (1524) Length: 251 (230)	Foams, including cross-linked PE, EVA and microcellular urethane.
L3 Platform Specialty acrylic adhesive	Adhesive Transfer Tape L3+T3	3.0 (0.076)	83# tan, unprinted PCK	6.2 (0.157)	275°F (135°C)	Width: 54 (1372) Length: 54 (229)	Elastomers, including TPV, neoprene rubber, butyl rubber and many versions of EPDM rubber.
with good adhesion to many elastomeric substrates.	Adhesive Transfer Tape L3+T5	5.0 (0.127)	83# tan, unprinted PCK	6.2 (0.157)	275°F (135°C)	Width: 54 (1372) Length: 54 (229)	Elastomers, including TPV, neoprene rubber, butyl rubber and many versions of EPDM rubber.



3M[™] Bonding Films

Product	Caliper (mils)	Base Resin	Color	Bond/ Cure Time	Bondline Temp. (°F)	Description		Size
406	3.0	EAA	Clear	2–5 sec.	320	Flexible, light colored, thermoplastic bonding film exhibits good adhesion to a variety of substrates, especially metals.	—	48" x 180 yd
583	2.0	Nitrile Phenolic	Brown	2-5 sec.	250	Heat or solvent-activated dry film adhesive.		48" x 180 yd
588	6.0	Nitrile Phenolic	Yellow	2-5 sec.	250	Heat or solvent-activated dry film adhesive.	_	21" x 180 yd
615	2.5 or 4.0	Polyester	Tan	2-5 sec.	280	Flexible, light colored, thermoplastic bonding films exhibit good adhesion to a variety of substrates. 615 contains a non-woven scrim.	_	0.6m x 155m
615S	6.0 or 9.0	Polyester	Tan	2–5 sec.	280	Flexible, light colored, thermoplastic bonding films exhibit good adhesion to a variety of substrates. 615S contains a non-woven scrim.	—	6 mil: 0.6m x 155m 9 mil: 0.6m x 80m
668	2.5 or 4.0	Polyamide	Tan	2–5 sec.	320	Flexible, light colored, thermoplastic bonding film is tacky at room temperature and has good adhesion to a variety of substrates at elevated temperatures.	_	0.6m x 155m
690	8.0	Polyester	Tan	2–5 sec.	280	Flexible, light colored, thermoplastic bonding film is tacky at room temperature and has good adhesion to a variety of substrates at elevated temperatures.	_	0.6m x 80m*

*MOQ is 2 rolls.

3M[™] Double Coated Foam Tapes

			Таре			Temperature Resistance °F (°C)			Relative Adhesion			
Carrier	Product	Liner Type	Thickness mils (mm)	Description	Adhesive Type	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE	Application Ideas	
	4004	A	250 (6.4)		100	380 (193)	220 (104)	Med	High	Low	Bond acoustic panels to walls.	
	4008	A	125 (3.2)	Off-white, open-cell urethane	100	380 (193)	220 (104)	Med	High	Low	Mount air fresheners, soap dispensers, interior signs and nameplates. Attach wire clips to various surfaces. Mount electrical channel to wall.	
	4016	A	62 (1.6)	foam carrier. High shear adhesive with high temperature resistance.	100	380 (193)	220 (104)	Med	High	Low		
Urethane	4026	A	62 (1.6)		100	380 (193)	220 (104)	Med	High	Low		
	4052	A	31 (0.8)	Black version of 4032.	100	380 (193)	220 (104)	Med	High	Low	Bond acoustic panels to walls Mount air fresheners, soap	
	4056	A	62 (1.6)	Black version of 4016 and 4026.	100	380 (193)	220 (104)	Med	High	Low	dispensers, interior signs and nameplates. Attach wire clips	
	4085	E	45 (1.1)	Off-white, open-cell urethane foam carrier. High-tack adhesive.	740	200 (93)	125 (52)	Med	High	Low	to various surfaces. Mount electrical channel to wall.	
	4462	В	31 (0.8)	White or black, closed-cell	745	158 (70)	120 (49)	Med	High	Low	Attach hooks, wire clips and	
Polyethylene	4466	В	62 (1.6)	polyethylene foam carrier. High-tack adhesive.	745	158 (70)	120 (49)	Med	High	Low	racks. Mount retail shelf price channels. Mount pen holders.	
	4492	С	31 (0.8)	White or black, closed-cell polyethylene foam carrier.	430	180 (82)	158 (70)	Med	High	Low	Mount nameplates on awards	
	<mark>4496</mark>	C	<mark>62 (1.6)</mark>	High shear adhesive with high temperature resistance.	<mark>430</mark>	180 (82)	158 (70)	Med	High	Low	and novelties. P.O.P. displays and signs.	
Acrylic	4658F	D	31 (0.8)	Clear, closed-cell acrylic foam tape. Clean removability from many substrates.	100	212 (100)	175 (80)	High	High	Low	Removable P.O.P. displays, signs, exhibits and trade shows, nameplates.	

Liner Types: A. 3 mil 62# Densified Kraft-Green Plaid; B. 3 mil Densified Kraft-White; C. 4 mil 58# Polycoated Kraft-Tan; D. 2 mil Polyester Film-clear; E. 3 mil Densified Kraft-Tan.



3M[™] Double Coated Urethane Foam Tape 4026 An excellent choice for interior mounting applications where the tape will be protected from the environment.



Long-term bonding in a wide range of temperatures.

3M[™] VHB[™] Tapes



With 3M[™] VHB[™] Tapes, you can maintain consistency from sketch to construction, eliminating distracting, visible fasteners, like screws and bolts. These high-strength, double-sided acrylic foam tapes let you quickly and easily create a long-lasting bond that actually builds strength over time. With the ability to join a variety of materials including aluminum, steel, glass, plastics and painted and powder-coated surfaces. They provide resilient bonding solutions in just about anything you can dream up. Visit 3M.com/VHB to open a world of new possibilities.

	Tape Thickness			Temperature Resistance °F (°C)			Relative Adhesion			
Product	w/o Liner mils (mm)	Liner Type	Description	Minutes Hours	Days Weeks	Solvent Resistance	HSE	LSE	Spec	Application Ideas
4941 Tape F	amily					1		I		
4926	15 (0.4)	A		300 (149)	200 (93)	High	High	Med	UL	_
4936	25 (0.64)	A		300 (149)	200 (93)	High	High	Med	UL	
4936F	25 (0.64)	F	Gray, closed-cell acrylic foam carrier. Conformable. For most	300 (149)	200 (93)	High	High	Med	UL	
4941	45 (1.1)	A	critical applications where a	300 (149)	200 (93)	High	High	Med	UL	Bond architectural signs to frames. Attach trim and extrusions.
4941F	45 (1.1)	D	customer needs the strongest possible solution. Tested to resist	300 (149)	200 (93)	High	High	Med	UL	Hat channels and stiffeners.
4956	62 (1.6)	A	high windloads, vibration, etc. where holding strength is critical.	300 (149)	200 (93)	High	High	Med	UL	
4956F	62 (1.6)	F	where notaing strength is critical.	300 (149)	200 (93)	High	High	Med	UL	1
4991	90 (2.3)	F		250 (121)	200 (93)	High	High	Med	UL	
4991B	90 (2.3)	F	Black version of 4991.	250 (121)	200 (93)	High	High	Med	_	
4919F	25 (0.64)	F	Black version of 4936F.	300 (149)	200 (93)	High	High	Med	UL	Bond architectural signs to frames. Attach trim and extrusions.
4947F	45 (1.1)	F	Black version of 4941F.	300 (149)	200 (93)	High	High	Med	UL	Hat channels and stiffeners.
4979F	62 (1.6)	F	Black version of 4956F.	300 (149)	200 (93)	High	High	Med	UL	
5952 Tape F	amily				·					
5906	6 (0.15)	G		300 (149)	250 (121)	High	High	Med	_	
5907	8 (0.20)	G		300 (149)	250 (121)	High	High	Med	_	
5908	10 (0.25)	G		300 (149)	250 (121)	High	High	Med	_	
5909	12 (0.30)	G	Black, closed cell acrylic foam	300 (149)	250 (121)	High	High	Med	_	Automotive Displays. Bond and seal polycarbonate lens over
5913	14 (0.35)	G	carrier. A highly conformable tape that excels at bonding a variety of paint systems, medium surface energy plastics and irregular surfaces.	300 (149)	250 (121)	High	High	Med	_	LCD. Bond and seal plastic windows to pre-painted control
5915	16 (0.40)	F		300 (149)	250 (121)	High	High	Med	UL	panels/switch gear. Mount
5915P	16 (0.40)	E		300 (149)	250 (121)	High	High	Med	UL	vinyl wiring ducts and conduit channels. Seam vinyl banners.
5925	25 (0.60)	F		300 (149)	250 (121)	High	High	Med	UL	
5925P	25 (0.60)	E		300 (149)	250 (121)	High	High	Med	UL	
5930	32 (0.80)	F		300 (149)	250 (121)	High	High	Med	UL	

3M[™] VHB[™] Tapes (cont.)

	Tape Thickness			Temperature Resistance °F (°C)			Relative Adhesion			
Product	w/o Liner mils (mm)	Liner Type	Description	Minutes	Days Weeks	Solvent Resistance	HSE	LSE	Spec	Application Ideas
5952 Tape Fa	amily (cont	.)								
5930P	32 (0.80)	E		300 (149)	250 (121)	High	High	Med	UL	Automotive Displays. Bond and
5952	45 (1.1)	F	Black, closed cell acrylic foam carrier.	300 (149)	250 (121)	High	High	Med	UL	seal polycarbonate lens over LCD.
5952P	45 (1.1)	E	A highly conformable tape that excels at bonding a variety of paint systems,	300 (149)	250 (121)	High	High	Med	UL	Bond and seal plastic windows to pre-painted control panels/
5962	62 (1.6)	F	medium surface energy plastics and	300 (149)	250 (121)	High	High	Med	UL	switch gear. Mount vinyl wiring
5962P	62 (1.6)	E	irregular surfaces.	300 (149)	250 (121)	High	High	Med	UL	 ducts and conduit channels. Seam vinyl banners.
5958FR	40 (1.0)	F	Meets FAR 25.853 (a) 12 sec vertical burn Appendix F, Part 1 (a) (ii).	300 (149)	200 (93)	High	High	Med	_	Overhead stow bins, signage, kick plates, galley modules, plastic and metal decorative trim, ceiling tile stiffeners, mirror mounting, air duct spuds, floor and wall panel attachment, clip attachment.
RP+ Tape Fai	nily									
RP+040GP	16 (0.4)	Α		450 (230)	250 (121)	High	High	Med	UL	
RP+040GF	16 (0.4)	F		450 (230)	250 (121)	High	High	Med	UL	
RP+060GP	25 (0.6)	A		450 (230)		High	High	Med	UL	_
RP+060GF	25 (0.6)	F		450 (230)	250 (121)	High	High	Med	UL	-
RP+080GP	32 (0.8)	A	Gray, closed-cell acrylic foam carrier. A general purpose adhesive with	450 (230)	250 (121)	High	High	Med	UL	-
RP+080GF	32 (0.8)	F	3M [™] VHB [™] Tape performance,	450 (230)	250 (121)	High	High	Med	UL	Panel bonding, stiffener attachment and trim attachment.
RP+110GP	45 (1.1)	A	designed for a wide range of general	450 (230)	250 (121)	High	High	Med	UL	attachment and trim attachment.
RP+110GF	45 (1.1)	F	bonding needs.	450 (230)	250 (121)	High	High	Med Med	UL	-
RP+160GP RP+160GF	62 (1.6) 62 (1.6)	F		450 (230)	250 (121) 250 (121)	High High	High High	Med	UL	-
RP+230GP	90 (2.3)	A		450 (230)	250 (121)	High	High	Med	UL	-
RP+230GP	90 (2.3)	F		450 (230)	250 (121)	High	High	Med	UL	-
GPH Tape Fa	. ,			100 (200)	200 (121)		_ riigii	ivica		
GPH-060GF	25 (0.6)	F		450 (230)	300 (150)	High	High	Med	UL	GPH's high temperature
GPH-110GF	45 (1.1)	F	Superior high-temp performance for powder coat or liquid paint processes	450 (230)	300 (150)	High	High	Med	UL	resistance allows it to reduce the number of "touches," leading to a more streamlined manufacturing process.
GPH-160GF	62 (1.6)	F	and multi material bonding.	450 (230)	300 (150)	High	High	Med	UL	
LSE Tape Far	nilv									manufacturing process.
LSE-060WF	25 (0.6)	F	\///:**	300 (150)	200 (93)	High	High	High	UL	Made to live outdoors. Resists hot, cold and cycling temperature,
LSE-110WF	45 (1.10)	F	White, closed cell acrylic foam carrier. Designed to bond composites, TPE, TPO, PP and low surface energy (LSE)	300 (150)	200 (93)	High	High	High	UL	UV light, moisture and solvents. Seals against environmental conditions. Low-temperature bonding with high initial tack at low temperatures on frost-free surfaces down to 0°C.
LSE-160WF	62 (1.6)	F	plastics without primer. UL 746C.	300 (150)	200 (93)	High	High	High	UL	
4950 Tape Fa	mily									
4914-015	6 (0.15)	A	Closed-cell acrylicfoam tape.	300 (150)	200 (93)	High	High	Med		
4914-020	8 (0.20)	A	Closed-cell acrylicfoam tape.	300 (150)	200 (93)	High	High	Med		This family has general purpose
4914	10 (0.25)	A	Closed-cell acrylicfoam tape. UL 746C.	300 (150)	200 (93)	High	High	Med	UL	adhesive on both sides of firm
4920	15 (0.4)	A	Closed-cell acrylicfoam tape. UL 746C.		200 (93)	High	High	Med	UL	type foam. Typically used on
4930	25 (0.6)	A	Closed-cell acrylicfoam tape. UL 746C.	300 (150)	200 (93)	High	High	Med	UL	metal, glass and high surface energy plastic substrates.
4950	45 (1.1)	A	Closed-cell acrylicfoam tape. UL 746C.	. ,	200 (93)	High	High	Med	UL	Available in white and black.
4955 4959	80 (2.0) 120 (3.0)	A	Closed-cell acrylicfoam tape. UL 746C. Closed-cell acrylicfoam tape. UL 746C.	400 (204)	300 (150) 300 (150)	High	High	Med Med	UL	-
4959 4910 Tape Fa		A	Gioseu-ceir aci yiicioant tape. UE 740C.	1 400 (204)	300 (130)	High	High	ivieu		
4910 Tape Fa	20 (0.5)	F	Clear, acrylic construction for joining transparent material.	300 (150)	200 (93)	High	High	Low	UL	Excellent for applications where clear or colorless is desired. The
4910	40 (1.0)	F	Clear, acrylic construction for joining transparent material.	300 (150)	200 (93)	High	High	Low	UL	general purpose adhesive on both sides is suitable for high surface energy substrates.

Liner Types: A. 3 mil 54# Densified Kraft Paper; B. 5 mil Clear Polyethylene Film; C. 2 mil Polyester Film D. 5 mil Red Polyethylene Film; E. 4 mil 58# Polycoated Kraft Paper; F. 5 mil Red Printed Polyethylene Film; G. 3 mil Clear PET. Relative Adhesion: HSE: High Surface Energy; LSE: Low Surface Energy. Multi-purpose Acrylic: Bonds to a wide range of materials including metals, glass, and high and medium surface energy plastics and paints. Resists migration of plasticizers in vinyl substrates. Modified Acrylic: Bonds to medium low surface energy paints and plastics, including many powder coated paints in addition to the substrates listed with the multi-purpose acrylic adhesive (except plasticized vinyl).

Durable Label Materials

Vital messaging. Securely accomplished.

Labels need to last a long time to keep providing end users with vital messaging through scorching sun, bitter cold, harsh chemical environments and more. 3M's innovative solutions perform with different print methods, substrates and ink systems. Plus, our programs offer the speed, flexibility and service that will help everyone succeed.

Learn more at: 3M.com/DurableLabels

Communicate critical messages. Discover how to help make sales soar with 3M[™] Versatile Print Durable Label Materials.

Delivering vital information. In the toughest environments.

3M is the premier durable label solution provider globally in the label industry today. 3M materials and services will enable you and your customers to present the best images, products, and quality as we solve marketplace solutions from design to production. We do this by partnering with industry leaders to deliver the best possible technology for innovative solutions regardless of your print method, substrates and ink systems.

Performance you can trust. From the top...down.

3M[™] Durable Label Materials combine performance-based adhesives, topcoats, liners and more — a winning combination that helps keep messaging vibrant and legible for years, even in harsh conditions. When you're facing a challenging situation, you can talk to a 3M Technical Services Specialist about your exact needs and we'll help you find a solution.



Printing Performance

State-of-the-art topcoat technology keeps you on the cutting edge of printing trends.



Adhesives & Liners World-class adhesive and liner

performance with unmatched durability.



Full-Service Value

Availability is key. 3M provides the support needed to ensure products arrive on time and perform for the tasks at hand.

Fast Track Service Programs — The speed, flexibility and service you need.

To best meet your customers needs for short runs or specialized materials, use the Fast Track Service Programs. These cost-effective options meet your requirements and your tight deadlines. Program advantages include: less inventory, less waste, faster turnaround, first run assurance, and faster delivery.



2-Day Pre-Slit Program

- Pre-slit stocked 4.5" or 6" rolls
- Shipped within 48 hours
- Minimum order of 4.5" or 6" pre-slit rolls
- No upcharge



- 2-Day Precision Roll Program
- Custom-slit widths
- No upcharge
- Roll length of 1,668 ft.
- Minimum order of 2" x 1,668 ft.



Mini-Master Program

- Custom-slit, full web width master rolls
- No upcharge
- Roll length short as 150 ft.
- Minimum order starts at 750 ft. rolls

Printing Methods Overview







	Why Customers Choose	Advantages	Disadvantages
Thermal Transfer			
A digital printing method in which material is applied to the label material by melting a coating of ribbon so that it stays glued to the material on which the print is applied. It contrasts with direct thermal printing, where no ribbon is present in the process.	 Variable information on demand Barcoding, track and trace Extreme durability End-user print on demand 	 Many substrates can be printed with inks Variety of ribbons available to meet application needs Cost effective use for serialization 	 Single color printing based on ribbon used Images are often required to be pre-printed with other print methods
Flexographic			
Uses quick-drying, semi-liquid inks and flexible photopolymer printing plates wrapped around rotating cylinders on a web press. The inked plates have a slightly raised image and rotate at high speeds to transfer the image to the substrate.	 The most economical for high volume printing The most common print method for labels Wide choice of inks (water-based, UV) 	 Lower cost process for high volume jobs Large number of label material options Low maintenance equipment 	 Cannot print variable data Newer water-based inks require more durable top coatings to anchor to the media (i.e., Versatile Print)
UV Inkjet			
A form of digital printing that uses ultra-violet lights to almost instantly dry or cure ink as it is printed. In addition, UV cured inks are weather-resistant and offer increased resistance to fading.	 Printing on demand Variable data Design freedom Reduced need for constant cleaning 	 Printing and die-cutting in one step Cost effective for short print runs (no print plate required like in flexo) Less setup material waste (vs. flexo) VOC free 	 Inks must be cured to dry (UV) Less efficient for longer static image runs
Laser/Toner-Based			
An electrostatic digital printing process where a laser is used to apply a negative charge to a drum. Pigmented toner is then collected by the charge and transferred to the substrate where it is fused by heat and pressure.	 Cost effective print method Designed for small to medium runs 	 Cost effective for short print runs (no print plate required like in flexo) Less set up material waste (vs. Flexo) 	 Limited to matte substrates Metalized films may damage equipment Durability is moderate
Screen Print			
A printing technique whereby a mesh is used to transfer ink onto a substrate, except in areas made impermeable to the ink by a blocking stencil. Cured with UV exposure.	 Extremely durable inks, fade resistant Outdoor durability Less expensive on large runs vs. digital 	 Able to print a large variety of materials Heavier ink laydowns (versatility) Vibrant, high quality inks 	 Amount of time to set up jobs Not practical for smaller runs Not environmentally friendly
Solvent Inkjet			
A digital form of printing that utilizes pigmented inks carried in a Volatile Organic Compound. Printed materials are usually cured through heating of inks and substrates.	 Extremely durable inks, fade resistant Outdoor durability Digital short run capability 	 Wide web format for large graphics and banners High resolution graphics Fast print speeds 	 Mainly limited to vinyl substrates VOC vapors
Water-Based Inkjet			
An inkjet printing system which utilizes electronic pulses to activate jets of ink to deposit the ink in precise locations. Water is the carrier for pigmented and dye base inks.	 Color variable information on demand Can be utilized for small to medium digital runs Durability has greatly improved in recent years 	 Small footprint that allows end user to print high quality labels in their specialized processes Media is converted often in blanks processed by converters 	 Limited run volume Not well suited for longer print runs

One topcoat. More possibilities.

3M[™] Versatile Print Label Material

The future of labels is here. 3M[™] Versatile Print Material works with more inks on more printing presses. Plus, you have the flexibility to use a single product for multiple print jobs. Stay on the forefront of the industry with a topcoat that creates vibrant labels that last longer, plus saves you time and money.

Versatile across these printing methods:

- Thermal Transfer • Water-based Flexographic
 - Screen Printing
- UV Flexographic • Toner-Based • UV Digital Inkjet
 - Hybrid Presses



Versatile — let the creativity flow.

- Proprietary 3M topcoat offers exceptional performance across multiple print methods
- Estimating is streamlined with one go-to label material

Verified — trusted results on more presses.

- UL Component Recognition to UL969 with many ink systems and print technologies*
- Print press manufacturer tested
- Topcoat has both high gloss and high surface energy compared to competitive offerings, giving strong print performance
- *See UL file MH16411 and MH18072 in UL Product iQ™ (Certifications Search) at ul.com for specific details.





Vibrant — stunning results.

- Streak free and crystal clear with crisp edges
- Near zero edge bleed and high image sharpness
- Create highly durable, glossy labels on digital and flexo

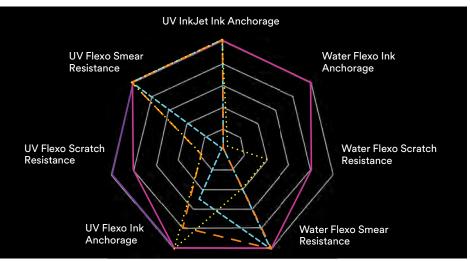


Value — fluid operations.

- Improve efficiency by reducing or even eliminating pre-treatment steps like priming
- Potentially eliminate the need for overlaminates
- Rationalize label inventory

Print performance.

3M[™] Versatile Print Label Material outperforms traditional gloss PET products in key measures of print performance.



Ink anchorage tested via ASTM 3359 for cross hatch adhesion using 3M[™] Scotch[®] Cellophane Film Tape 610. Scratch and smear resistance tested via industry recognized qualitative tests using thumbnail scratch and thumb pressure smear. For more information, please contact a 3M expert at 3M.com/durablelabels.

Stay Tuned! We are continuing to expand our portfolio of 3M Versatile Print products. Please contact your 3M Converter Markets representative for more information regarding Versatile Print series product availability.

3M[™] Versatile Print Label Materials

				Construction			Prin	t Metl	hod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
	7871V	Excellent high temperature resistance and adhesion to LSE plastics and smooth powder coats. Broad applications in automotive, electronics, healthcare, heavy machinery, general industrial. Specialty applications in automotive EV battery, GHS drum labeling. BS5609 certified durable label.	2.0 1.8 3.2	PET, Versatile Print TC 350 55# Densified Kraft	•				•		
	7868V	High abrasion and solvent resistance. Excellent high temperature resistance. Excellent adhesion to LSE plastics and smooth powder coats. BS5609 certified durable label.	2.0 1.1 3.2	PET, Versatile Print TC 350 55# Densified Kraft	•	-			•		
3M[™] Versatile Print Polyester Gloss White	7908V	Heavy adhesive coat weight for textured surfaces. Excellent high temperature resistance. Excellent adhesion to LSE plastics and powder coats. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 1.8 6.8	PET, Versatile Print TC 350 90# Polycoated Kraft	•				6		
	7331V	Good for general purpose indoor and outdoor use. Excellent bond to LSE plastics. Applications include medical device and equipment, lawn and garden, and appliance.	2.0 0.8 3.2	PET, Versatile Print TC 300 55# Densified Kraft	•	-	•		•		
	7816V	High abrasion and solvent resistance. Economical durable label material with firm adhesive to resist oozing.	2.0 0.8 3.2	PET, Versatile Print TC 310 55# Densified Kraft	•				-		
3M[™] Versatile Print Polyester	7872V	Excellent high temperature resistance and adhesion to LSE plastics and smooth powder coats. Broad applications in automotive, electronics, healthcare, heavy machinery, general industrial. Differentiate your labels with a unique platinum metallic appearance.	2.0 1.8 3.2	PET, Versatile Print TC 350 55# Densified Kraft	-	•	•	•	•		
Gloss Platinum	7875V	Durable label material with firm adhesive to resist oozing. Differentiate your labels with a unique platinum metallic appearance.	2.0 0.8 3.2	PET, Versatile Print TC 310 55# Densified Kraft	•	-			•		
3M [™] Versatile Print	7323V	Good for indoor and outdoor use. Excellent bond to LSE plastics. Match a metallic look with gloss bright silver.	2.0 0.8 3.2	PET, Versatile Print TC 300 55# Densified Kraft	•				-		
Polyester Gloss Bright Silver	7903V	Good for indoor and outdoor use. Excellent bond to LSE plastics. 90# liner with layflat properties ideal for sheet and screen printing applications. Match a metallic look with gloss bright silver.	2.0 1.8 6.8	PET, Versatile Print TC 350 90# Polycoated Kraft	•	-			6		
3M™ Versatile Print Polyester Gloss Brushed Silver	7909V	High abrasion and solvent resistance. 90# liner with layflat properties ideal for sheet and screen printing applications. Applications include heavy machinery, name plate, and safety labeling.	2.0 1.8 6.8	PET, Versatile Print TC 350 Polyester Film	-				-		
	7876V	High abrasion and solvent resistance. Heavy adhesive coat weight for textured surfaces. Excellent high temperature resistance. Excellent adhesion to LSE plastics and powder coats. Use where you need a printable, clear label with high performance adhesive.	2.0 1.8 3.2	PET, Versatile Print TC 350 55# Densified Kraft							
3M[™] Versatile Print Polyester Gloss Clear	7350V	Good for indoor and outdoor use. Excellent bond to LSE plastics. Use where you need a printable, clear label with high performance adhesive.	2.0 0.8 3.2	PET, Versatile Print TC 300 55# Densified Kraft	•						
	7905V	Excellent high temperature resistance. Excellent adhesion to LSE plastics and powder coats. 90# liner with layflat properties ideal for sheet and screen printing applications. Use where you need a printable, clear label with high performance adhesive.	2.0 1.8 6.8	PET, Versatile Print TC 350 90# Polycoated Kraft					6		

*3M[™] Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.

S 90# polycoated kraft liner is specifically designed for screen printing.

Water-based. Fast paced. Inkjet printable.

3M[™] Water-based Inkjet Label Materials

Optimize your water-based inkjet printing with this breakthrough durable label material. 3M[™] Water-based Inkjet Labels let you print with great resolution at a low cost per area. It's the durable label stock you can count on to enhance your digital messaging.

High value. Low cost per area.

- Unique topcoat designed for water-based inkjet print systems
- Durable facestock and adhesive stand up to harsh environments
- UL recognized with several different water-based inkjet systems
- BS5609, Section 3 compliant material



				Construction			Print	t Metl	hod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
3M [™] Water-	7850-IJ	Excellent high temperature resistance and adhesion to LSE plastics and smooth powder coats. Applications include medical device and equipment, heavy machinery.	3.0 1.1 3.2	PP, Waterbased Inkjet TC 350 55# Densified Kraft							•
based Inkjet Polyester White	7882-IJ	Excellent cold temperature performance for a wide range of applications. Ideal for freezer or pharmaceutical applications.	3.0 0.8 3.2	PP, Waterbased Inkjet TC 400 55# Densified Kraft							•
3M [™] Water- based Inkjet	7790-IJ	Durable facestock and adhesive stand up to harsh environments. BS5609 certified durable label. Ideal for use in chemical drum labeling applications.	5.0 1.1 3.2	PP, Waterbased Inkjet TC 350 55# Densified Kraft							
Polypropylene White	FP033-IJ	Emulsion-based, high performance LSE adhesive with high-tack for demanding applications. Broad applications in general industrial.	5.0 1.4 3.2	PP, Waterbased Inkjet TC P1480 50# SC							

*3M[™] Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.



More durable than paper-based labels.

This premium graphic label material needs no additional topcoating or priming for print receptivity. This combines with world-class film and adhesive technology to ensure that your label performs, no matter what.

Facestock Properties

		Film Properties	Processing Properties	Environn	nental Resis	stance to:							
Facestock	Features	Service Temperatures	Conformability	Chemical	Moisture	Outdoor/UV	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
Acetate	Rigid film, tears easily, works well for security seals or overlaminate.	-20 to 140°F	2	2	2	2							
Acrylate	Excellent clarity and UV resistance. 5 year outdoor performance.	-40 to 175°F	3	7	7	10	•						
Acrylate, Cast	Ultra-high temperature performance.	-40 to 392°F 530 for 30 sec. 500 for 7 min.	7	9	9	7	•						
Acrylate, Cast Modified	Ultra-high temperature performance. Can be imaged and kiss cut by a laser beam. Long-term readability, chemical and abrasion resistance.	-40 to 392°F 530 for 1 min. 482 for 5 min. 440 for 60 min.	7	10	8	10							
Acrylic	Good clarity and UV resistance.	-20 to 140°F	3	5	7	7		•					
Aluminum Foil	Vinyl top-coated for ink receptivity. Facestock can be embossed using dot matrix impact printers.	-40 to 350°F	4	7	10	10		•					
Polyimide	Ultra-high temperature performance. Easy readability of variable information and bar codes.	-40 to 500°F	6	10	10	10	•						
Thermoplastic Polycarbonate	Used to achieve the attractive appearance of subsurface screen printed polycarbonate.	-40 to 250°F	4	8	9	7							
Paper	Pharmaceutical and performance paper.	-40 to 350°F	3	3	2	6	•	•					
Polyart®	Non-glare surface, biaxially oriented, printable with some cold fusing and flash fusing laser printers. Accepts handwriting with a ballpoint pen or marker.	-40 to 160°F	7	6	8	7	•	•			•		
Polyester EDP, DMI and Laser TC	Polyester EDP available in white, silver and clear. Optimal clarity for overlaminate applications. High quality rigid film with high tensile strength. Excellent dimensional stability. Not recommended for curved surfaces. High quality rigid film. High tear resistance, notch sensitive.	-40 to 302°F -20 to 257°F Clear only	2	9	9	8	-	-		•	•		
Polyester White and Clear Laser TC	Polyester available in white, silver and clear. Clear polyester provides optimal clarity for	-20 to 257°F	2	9	9	8		•					
Polyester MC	overlaminate applications. High quality rigid film with high tensile strength. Excellent dimensional stability. Not recommended	-40 to 302°F	2	9	9	8	•	•		•			
Polyester PT	for curved surfaces. High quality rigid film. High tear resistance, notch sensitive.	-40 to 302°F -20 to 257°F Clear only	2	9	9	8	•	•					

*3M[™] Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.

Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

For product recommendations or technical support, please call the Converter Markets Technical Support Line 1-800-223-7427.

Facestock Properties (cont.)

		Film Properties	Processing Properties	Environn	nental Resis	tance to:		Flexographic Flexographic Image: Construction of the state of					
Facestock	Features	Service Temperatures	Conformability	Chemical	Moisture	Outdoor/UV	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
Versatile Print Topcoat	High abrasion and solvent resistance. Polyester films provide moisture barrier properties while able to withstand high temperatures making them ideal for durable label applications. They also demonstrate excellent dimensional stability and tensile strength.	-40° to 302°F	2	9	9	9							
Polyester Waterbased Inkjet Topcoat	Unique topcoat specifically designed for water-based inkjet printing provides outstanding print receptivity and abrasion resistance. Polyester films provide moisture barrier properties while able to withstand high temperatures making them ideal for durable label applications.	-40° to 302°F	2	8	8	8							-
Polyester TC	Polyester films provide moisture barrier properties while able to withstand high temperatures making them ideal for durable label applications. They also demonstrate excellent dimensional stability and tensile strength.	-40° to 302°F -20° to 257°F Clear only	2	9	9	8							
Polyester NTC	Optimal clarity for overlaminate applications.	-20° to 257°F	2	9	9	8							
Polyethylene	High tear resistance and elongation, low tensile strength.	-20° to 140°F	10	3	7	4							
Polyolefin	Extremely pliable and conformable, moisture resistant. PVC-free vinyl alternative.	-40° to 140°F	9	7	7	3							
Polypropylene Waterbased Inkjet Topcoat	Unique topcoat specifically designed for water-based inkjet printing provides outstanding print receptivity and abrasion resistance. A conformable film that offers moisture resistance and durability even in outdoor conditions. Topcoat is water inkjet printable allowing for dynamic, durable, color on demand labels.	-40° to 140°F	8	7	8	7							-
Polypropylene, Label-Lyte® EDP	Outdoor UV durability up to one year. Excellent ink adhesion, good stiffness for auto application; excellent opacity.	-20° to 220°F	8	7	8	7							
Polypropylene, Label-Lyte® T2S	Outdoor UV durability up to one year. Excellent ink adhesion, good stiffness for auto application; excellent opacity.	-20° to 220°F	8	7	8	7							
Polypropylene T1S	Semi-hard film with high tear resistance and good dimensional stability.	-20° to 140°F	6	7	8	3							
Polypropylene EDP	Excellent opacity, moisture and tear resistance, excellent dimensional stability, resistant to cracking and abrasion, antistatic coating to eliminate double feeding when printing and folding.	-20° to 140°F	8	7	8	7							
Polypropylene TC, White, Clear or Metalized	High tensile strength, but notch sensitive.	-20° to 140°F	8	7	8	7							
Polystyrene, Matte and Gloss Clear	Economical, hard, rigid film. Tear and temperature sensitive. Not recommended for outdoor use.	-20° to 140°F	2	2	5	2							
Retro-Reflective Film	When bar code printed, the facestock extends the max. and min. scanning distance of long-range scanners.	-40° to 300°F	7	7	9	8							
Teslin®, Polyolefin	Durable alternative to paper labels, excellent abrasion properties.	-40° to 250°F	9	8	9	7							

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Values: 1 = Lowest Performance; 10 = Highest Performance

Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

For product recommendations or technical support, please call the Converter Markets Technical Support Line 1-800-223-7427.

Facestock Properties (cont.)

		Film Properties	Processing Properties	Environm	nental Resis	tance to:							
Facestock	Features	Service Temperatures	Conformability	Chemical	Moisture	Outdoor/UV	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
Vinyl (PVC) EDP, White		-20° to 140°F	10	4	7	7							
Vinyl (PVC) NTC, White, Clear, Color or Translucent	Conformability reduces as gauge increases. Multi-purpose film available in flexible,	-20° to 140°F	10	4	7	7						-	
Vinyl (PVC) TC, White	semi-rigid or rigid. Polymerically plasticized for dimensional stability.	-20° to 140°F	10	4	7	7							
Vinyl (PVC) TC2	Handles outdoor conditions well. Will burn	-20° to 140°F	10	4	7	7							
Vinyl (PVC) TC3, White, Colors or Clear	in flame, but should be self-extinguishing after removal. Low tear resistance. Available in medical grades.	-20° to 140°F	10	4	7	7							
Vinyl (PVC) TC6, White, Colors or Clear		-20° to 140°F	10	4	7	7							
Vinyl, Textured		-20° to 140°F	10	4	7	7							

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Liner Selection

Liner	Mil (nominal) Thickness	Description	Layflat	Semi Layflat	Back Side Printable	Fanfold	Roll-to-Roll
40# SC, 43# DK	2.4	Semi-bleached, super calendered/densified kraft sheet.					
2.2 Glassine	2.2	Double sided glassine liner assures consistent die cutting. The backside release coating helps minimize label blocking.					-
3.0 Glassine	3.0	Double sided glassine liner assures consistent die cutting. The backside release coating helps minimize label blocking.					-
44# Polykraft	3.1	Polypropylene has been laminated to a 44# brown kraft sheet. Excellent caliper control and strength making it ideal for high-speed labeling applications.			•		•
50# SC, 55# DK	3.2	Semi-bleached, super calendered/densified kraft sheet designed for high-speed die-cutting and matrix stripping. Not recommended for sheet on press applications.			•		•
50# C2S	3.2	Back side has been lightly coated with silicone to reduce label pick. Recommended when using very soft adhesives or where heavy adhesive coat weights are required.					•
50# TL	3.4	Stabilized bleached kraft sheet with good caliper control. Ideal for most sheet-on-press applications. Back side is printable.					
78# CCK, HL	4.6	Bleached, clay-coated kraft sheet. Excellent for sheet-on-press applications where additional strength and stiffness is required.			-		-
90# Polycoated	7.0	Bleached kraft sheet polyethylene-coated on two sides.					
1.5 Polyester	1.5	Clear polyester. Used when high strength and caliper control are important. Recommended for high-speed labeling applications or where clarity of the adhesive is critical.					•
4.0 Polyester	4.0	Clear polyester. Excellent for doming applications where ultimate lay flat is required.					

*3MTh Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.

The chart above is a general guide. Facestocks and adhesives should be tested with actual components to ensure acceptable performance.

Adhesive Families — Label Materials



100 High Temperature Acrylic

- Up to 450°F (232°C) short-term heat resistance and excellent solvent resistance
- High peel strength compared to other acrylic formulations
- Exceptional shear strength even at elevated temperatures
- Exhibits low outgassing characteristics

150

150 High Temperature Acrylic

- Up to 450°F (232°C) short-term heat resistance and excellent solvent resistance
- High internal strength ideal for applications on high surface energy plastics and metals



200MP High Performance Acrylic

- Up to 400°F (204°C) short-term heat resistance and excellent solvent resistance
- Outstanding adhesion to metal and high surface energy plastics
- Excellent shear strength to resist slippage and edge lifting
- Short-term repositionability for placement accuracy



300 High Strength Acrylic

- Up to 250°F (121°C) short-term heat resistance
- Greater initial adhesion especially to low surface energy plastics
- Quick flowing to speed lamination of textured plastics, foams, fabrics and coated papers



310 High Precision Acrylic

- Provides firmness and high precision strength on a variety of surfaces including HSE plastics and metals
- Compatible with a variety of print technologies including thermal transfer and laser printing



320 High Tenacity Acrylic

- Up to 250°F (11°C) short-term heat resistance
- High bond strength to a variety of surfaces
- Excellent flagging resistance on small diameter surfaces



350 High-Holding Acrylic

- Ideal for very high bond strength to many surfaces • Most universal adhesive — ideal for powder
- coatings, LSE plastics and oily metals • Up to 350°F (177°C) short-term heat resistance
- and excellent solvent resistance



400 Low Temperature Acrylic

- Good low temperature performance and peel strength on many surfaces
- Up to 250°F (121°C) short-term heat resistance
- Excellent adhesion to uncoated papers
- Clarity and UV resistance for window label applications



500 High Stability Acrylic

- Cleanly removes from most surfaces up to one year after application
- Excellent for die-cut masks needing outdoor performance and removability
- For vinyl label stocks only



F2201

1000 Series Repositionable Acrylic

- Good holding to many surfaces
 - Clean removal or numerous reapplications
 - Stain resistance on many surfaces

F2201 Freezer Acrylic

- Low 0°F (-18°C) application temperature, high initial tack
- Good moisture resistance
- Good long-term adhesion

🔂 Go-To Product

P1110

P1110 Permanent Rubber Based

- Excellent ultimate adhesion
- High initial tack
- Good choice for labeling LSE or waxy surfaces
- Good choice for toy labeling applications



P1212 General Purpose Acrylic

- Excellent clarity, good initial tack
- Excellent die-cutting properties
- Good UV resistance
- UL recognized for indoor use



P1400 High Performance Tackified Acrylic

- Excellent UV and moisture resistance
- Formulated for use in demanding environments
- Excellent adhesion to wide variety of substrates
- UL recognized for indoor/outdoor use



P1410 Tackified Acrylic

- High-tack
- Neutral pH
- Good adhesion to polyolefins



P1480 High Performance Tackified Acrylic

- High initial tack
- Good ultimate adhesion on a wide variety of surfaces
- Excellent choice for textured surfaces or powder coats
- Designed to meet difficult automotive underhood battery specifications



• Lower tack version of Adhesive R3500

🔂 Go-To Product

Adhesive Selection Guide Based on Surface Energy

These charts are based on relative adhesion within each given surface energy category.

Metals	Surface Energy (Dynes/cm)
Copper	1103
Aluminum	840
Zinc	753
Tin	526
Lead	543

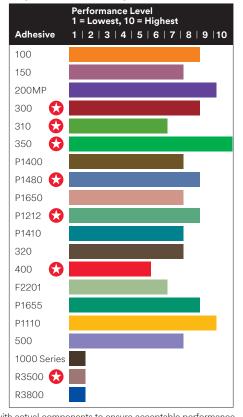
High Surface Energy (HSE) Plastics	Surface Energy (Dynes/cm)
Polyimide	50
Phenolic	47
Nylon®	46
Alkyd Enamel	45
Polyester	43
Epoxy Paint	43
Polyurethane	43
ABS	42
Polycarbonate	42
PVC	39
Modified PPE Resin	38
Acrylic	38
Polane® Paint	38

Low Surface Energy (LSE) Plastics	Surface Energy (Dynes/cm)
PVA	37
Polystyrene	36
Acetal	36
EVA	33
Polyethylene	31
Polypropylene	29
PVF	28
PTFE	18
Powder Coatings	Broad Range

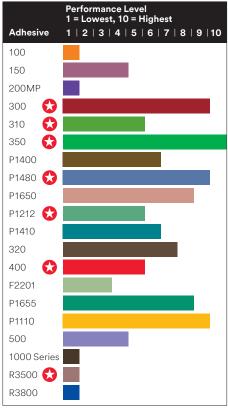
Adhesive Performance on Metals



Adhesive Performance on High Surface Energy (HSE) Plastics



Adhesive Performance on Low Surface Energy (LSE) Plastics



Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

🔂 Go-To Product

Adhesive Properties

	Tem	perature °F (°C)	A	dhesive Pro	operties	A	dhesion t	o:		Environmental Prop Resistance to:		
Adhesive Family	Minimum Application	Low Service	High Service	Initial Peel	Ultimate Peel	Convertibility	Metal	HSE Plastic	LSE Plastic	Chemical	Ultra Violet	Moisture	
High Temperature Ac	lhesives												
100	50 (10)	-40 (-40)	450 (232)	3	9	10	9	8	1	10	10	10	
150	50 (10)	-40 (-40)	450 (232)	6	7	10	7	7	4	5	10	9	
200MP	50 (10)	-40 (-40)	400 (204)	4	10	10	10	9	1	10	10	10	
High Performance Ac	dhesives												
300 😿	50 (10)	-40 (-40)	300 (149)	6	7	4	7	8	9	7	7	8	
310 😥	50 (10)	-40 (-40)	300 (149)	5	6	6	7	7	5	7	7	8	
350 😥	50 (10)	-40 (-40)	350 (177)	7	9	8	9	10	10	9	7	10	
P1400	40 (4)	-20 (-29)	302 (150)	4	6	6	7	7	6	5	8	7	
P1480 😒	40 (4)	-22 (-30)	300 (149)	6	8	4	8	8	9	7	5	7	
P1650	40 (4)	-40 (-40)	302 (150)	6	7	4	8	7	8	7	5	7	
General Purpose Adh	nesive	1				1						·	
P1212 😧	40 (4)	-20 (-29)	302 (150)	4	5	6	6	8	5	4	5	6	
P1410	40 (4)	-20 (-29)	302 (150)	6	6	6	5	6	4	5	_	5	
Specialty Adhesives													
320	50 (10)	-40 (-40)	250 (121)	7	7	6	7	7	7	6	6	8	
400 😿	10 (-12)	-60 (-51)	250 (121)	5	5	6	5	5	5	5	10	8	
F2201	0 (-18)	-40 (-40)	250 (121)	3	4	5	5	6	3	3	5	4	
P1655	40 (4)	-40 (-40)	302 (150)	1	7	4	8	8	8	7	5	7	
Rubber Based Adhes	ives									•			
P1110	55 (13)	-40 (-40)	155 (68)	6	7	4	8	9	9	3	3	3	
Removable Adhesive	s											<u>.</u>	
500	50 (10)	-40 (-40)	175 (79)	4	5	3	5	7	4	5	10	10	
1000 Series	50 (10)	-20 (-29)	250 (121)	2	3	7	3	1	1	2	5	3	
R3500 🔂	40 (4)	-20 (-29)	155 (68)	1	3	6	3	1	1	2	7	3	
R3800	50 (10)	20 (-7)	155 (68)	1	3	6	3	1	1	2	7	2	

Values: 1 = Lowest Performance; 10 = Highest Performance Rankings are a general guide. Adhesives should be tested with actual components to ensure acceptable performance.

😡 Go-To Product

3M[™] Durable Label Materials — adhesives, topcoats, liners, and more — combine to keep messaging vibrant and legible for years, even in harsh conditions.

				Construction	Print Method*							
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet	
	♥ 7871V	High abrasion and solvent resistance. Excellent high temperature resistance and adhesion to LSE plastics and smooth powder coats. Broad applications in automotive, electronics, healthcare, heavy machinery, general industrial. Specialty applications in automotive EV battery, GHS drum labeling. BS5609 certified durable label.	2.0 1.8 3.2	PET, Versatile Print TC 350 55# Densified Kraft	-			•	•			
	7871VFL	Same product construction as 7871V label stock with film liner. Film liner provides smooth adhesive and resists tearing. Ideal for applications requiring automated dispensing.	2.0 1.8 1.5	PET, Versatile Print TC 350 Polyester Film	•							
	V 7868V	High abrasion and solvent resistance. Excellent high temperature resistance. Excellent adhesion to LSE plastics and smooth powder coats. BS5609 certified durable label.	2.0 1.1 3.2	PET, Versatile Print TC 350 55# Densified Kraft	•							
Polyester	♥ 7908V	High abrasion and solvent resistance. Heavy adhesive coat weight for textured surfaces. Excellent high temperature resistance. Excellent adhesion to LSE plastics and powder coats. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 1.8 6.8	PET, Versatile Print TC 350 90# Polycoated Kraft	-	-	-	•	6			
Gloss White	7908FL	Same product construction as 7908V with thick polyester liner suitable for domed decals.	2.0 1.8 4.0	PET, Gloss White TC 350 Polyester Film	•							
	€ 7220SA	Adhesive allows releases trapped air to prevent bubbling for easy application of large format graphics. Ideal for applications where outgassing is a concern. High performance adhesive provides great adhesion to HSE and LSE surfaces, powder coated paint, and slightly oily metals. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 1.1 6.8	PET, Gloss White TC 350 90# Polycoated Kraft	-	-	-		8			
	7037	Same film as 7036 with aggressive adhesive for difficult substrates. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 1.1 6.8	PET, White TC 350 90# Polycoated Kraft					6			
	7907	350 adhesive for performance applications that require thermal transfer printing and demand adhesive performance on difficult to stick to surfaces (e.g. HSE plastics or powder coats). 90# liner with layflat properties ideal for sheet and screen printing applications.	2.3 1.8 6.8	PET, Matte White TC 350 90# Polycoated Kraft					6			

*3M[™] Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.

😮 Go-To Product 🛛 🔍 Versatile Print Label Materials 🛛 🜖 90# polycoated kraft liner is specifically designed for screen printing.

				Construction			Prin	t Metl	nod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
	♥ 7331V	High abrasion and solvent resistance. Good for general purpose indoor and outdoor use. Excellent bond to LSE plastics. Applications include medical device and equipment, lawn and garden, and appliance.	2.0 0.8 3.2	PET, Versatile Print TC 300 55# Densified Kraft							
	7331FL	Same as 7331 label stock with film liner for automatic application equipment.	2.0 0.8 1.5	PET, White TC 300 Polyester Film	•	•					
	7931	High abrasion and solvent resistance. Good for indoor and outdoor use. Excellent bond to LSE plastics. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 0.8 6.8	PET, Gloss White TC 300 90# Polycoated Kraft	•	•			6		
	V 7816V	High abrasion and solvent resistance. Economical durable label material with firm adhesive to resist oozing.	2.0 0.8 3.2	PET, Versatile Print TC 310 55# Densified Kraft	•						
Polyester Gloss White	7816FL	Offers excellent durability. Firm adhesive that resists oozing. Same as 7816 label stock with polyester liner.	2.0 0.8 1.5	PET, White TC 310 Polyester Film	•						
(cont.)	7830/ 7864	Thin label profile provides good performance on small diameter packages. Excellent cold temperature performance. Good abrasion and chemical resistance.	1.0 0.8 3.2	PET, White TC 400 55# Densified Kraft	•						
	FM041902	Durable film facestock with aggressive, high-tack emulsion adhesive. Good adhesion to powder coats and heavily textured surfaces. Applications include automotive battery label and general industrial LSE labeling.	2.0 1.3 3.2	PET, White TC P1480 55# Densified Kraft	•						
	OFM03402	Glossy film label with excellent UV resistance and adhesion to a variety of substrates. Good choice for durable goods or lawn and garden applications.	2.0 0.9 3.2	PET, White TC P1400 50# Polycoated Kraft	•						
	7034	Glossy white film for use in general industrial applications. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 0.9 6.8	PET, White TC P1400 90# Polycoated Kraft	-				6		
	8418	Ideal for fuel line identification. Intended for use with 8417 overlaminate label material.	1.0 1.2 2.5	PET, White TC 100 43# Densified Kraft	-						

*3M[®] Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.

Reliable tracking and identification.

Labeling needs vary. From durability to removability, indoor or outdoor use, 3M has a solution you can count on to go the distance and communicate important information.



😯 Go-To Product 🛛 🔇 Versatile Print Label Materials 🛛 📀 90# polycoated kraft liner is specifically designed for screen printing.

				Construction			Prin	t Metl	hod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
3M [™] Water-based Inkjet	0 7850-1J	Topcoat uniquely designed for waterbased inkjet print systems. Durable facestock and adhesive stand up to harsh environments. Excellent high temperature resistance and adhesion to LSE plastics and smooth powder coats. Applications include medical device and equipment, heavy machinery.	3.0 1.1 3.2	PET, Waterbased Inkjet TC 350 55# Densified Kraft				•			-
Polyester	0 7882-1J	Topcoat uniquely designed for waterbased inkjet print systems. Durable facestock and adhesive stand up to harsh environments. Excellent cold temperature performance for a wide range of applications. Ideal for freezer or pharmaceutical applications.	3.0 0.8 3.2	PET, Waterbased Inkjet TC 400 55# Densified Kraft				•			
	\$ 7246	Extreme durability topcoat. Eliminates the need for protective overlaminates in many applications. Excellent high temperature resistance and adhesion to LSE plastics and smooth powder coats.	2.2 1.8 2.2	PET TT3, Matte White 350 40# Densified Glassine		-					
	7874	Matte topcoated PET with high abrasion and solvent resistance for thermal transfer printed variable information. Excellent high temperature resistance and adhesion to LSE plastics and smooth powder coats. Broad applications in automotive, electronics, healthcare, heavy machinery and general industrial.	2.3 1.8 3.2	PET, White TT TC 350 50# SC	-	•					
Polyester Matte White	7850HL	Matte topcoat offers excellent ink anchorage for laser toner and dot-matrix printing. Excellent high temperature performance especially to LSE plastics and smooth powder coats. Clay-coated heavy liner ideal for laser printing applications.	2.3 1.1 4.6	PET, White Laser TC 350 78# CCK	•	•		•			
	7810	Features ultra smooth topcoat. Ideal for bar code applications. Good durability with a wide range of ribbons.	2.3 0.8 3.2	PET, White TT TC 300 55# DK							
	7880	Matte topcoat resists scuffing, chemicals and moisture. Excellent adhesion to LSE plastics.	2.3 0.8 3.2	PET, White DMI TC 300 55# Densified Kraft	•	•					
	7980	Matte topcoat resists scuffing, chemicals, and moisture. Excellent adhesion to smooth LSE plastics. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.3 0.8 6.8	PET, Matte White TC 300 90# Polycoated Kraft					6		

*3M[™] Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.



Important messages need to be seen.

The right combination of adhesives, topcoats, liners and more — keeping messaging vibrant and legible for years, even in harsh conditions.

😯 Go-To Product 🚺 Water-based Inkjet Label Materials 🕓 90# polycoated kraft liner is specifically designed for screen printing.

				Construction			Prin	t Met	hod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
	7880HL	Heavy liner version of 7880 label stock for excellent liner stability in high humidity. Clay-coated heavy liner ideal for laser printing applications.	2.3 0.8 4.6	PET, White Laser TC 300 78# CCK	•						
	3 7815	Features ultra smooth topcoat. Ideal for variable information applications. Good durability with a wide range of ribbons. Firm adhesive to resist oozing.	2.3 0.8 3.2	PET, White TT TC 310 50# SC	-						
	7815FL	Same product construction as 7815 label stock with polyester liner.	2.3 0.8 1.5	PET, White TT TC 310 Polyester Film	•						
Polyester Matte White (cont.)	7840HL	Matte topcoat offers excellent ink anchorage for various digital printing technologies. Firm adhesive that resists oozing. Clay-coated heavy liner ideal for laser printing applications.	2.3 0.8 4.6	PET, White Laser TC 310 78# CCK	-						
	FM162	Dot-matrix imprintable film that also accepts thermal transfer print. General purpose adhesive bonds well to metals and HSE plastics.	2.0 0.9 3.2	PET, White EDP P1212 50# SC	•						
	FM034602	Micro-cavitated film with print receptive coating for use with most UV inkjet systems and thermal transfer printing. Designed for use in automotive applications. Excellent thermal stability.	2.0 1.3 3.2	PET, White MC P1650 50# SC	•		-				
	FM01961K	Specialized adhesive can be applied at temperatures as low as 0°F. Liner has special surface finish on the back side to enhance feed and reduce static problems. Excellent for drum labeling and laser printing applications.	2.0 0.8 4.6	PET, White MC F2201 78# CCK	•						
	V 7876V	High abrasion and solvent resistance. Heavy adhesive coat weight for textured surfaces. Excellent high temperature resistance. Excellent adhesion to LSE plastics and powder coats. Use where you need a printable, clear label with high performance adhesive.	2.0 1.8 3.2	PET, Versatile Print TC 350 55# Densified Kraft	•	•	•	•	•		
	7905	Heavy adhesive coat weight for textured surfaces. Excellent high temperature resistance. Excellent adhesion to LSE plastics and powder coats. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 1.8 6.8	PET, Gloss Clear TC 350 90# Polycoated Kraft	-				8		
Polyester Gloss Clear	7350/ 7861	Offers high abrasion and solvent resistance. Excellent adhesion to LSE plastics. Ideal for indoor and outdoor applications.	2.0 0.8 3.2	PET, Clear TC 300 55# Densified Kraft	•	•	-				
	7350FL	Same as 7350 label stock with film liner for automatic application equipment.	2.0 0.8 1.5	PET, Clear TC 300 Polyester Film	•						
	7950	Offers high abrasion and solvent resistance. Excellent adhesion to smooth LSE plastics. Ideal for indoor and outdoor applications. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 0.8 6.8	PET, Gloss Clear TC 300 90# Polycoated Kraft	•				6		
	7831	Thin label profile provides good performance on small diameter packages. Excellent cold temperature performance.	1.0 0.8 3.2	PET, Clear TC 400 55# Densified Kraft							

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😯 Go-To Product 🛛 🔍 Versatile Print Label Materials 🛛 ら 90# polycoated kraft liner is specifically designed for screen printing.

				Construction			Prin	t Met	hod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
	OFM3102	Durable film offers thermal stability and moisture resistance. Adheres to a variety of surfaces and offers excellent UV resistance.	2.0 0.9 3.2	PET, Clear TC P1400 50# SC	•	•					
Polyester Gloss Clear (cont.)	7029	Excellent UV resistance. Good adhesion to a variety of surfaces. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 0.9 6.8	PET, Gloss Clear TC P1400 90# Polycoated Kraft	•	•			S		
	FM042	High clarity emulsion adhesive with good initial tack and excellent die cutting properties. Adhesion to metals and HSE plastics.	2.0 0.9 3.2	PET, Clear TC P1212 50# SC	•	•					
Polyester	7881	Matte topcoat provides good chemical and abrasion resistance. Excellent adhesion to LSE plastics. Dot-matrix printable.	2.3 0.8 3.2	PET, Clear DMI TC 300 55# Densified Kraft	•	•					
Matte Clear	FM232	Matte film suitable for thin gauge label applications or as a printable overlaminate film. General purpose emulsion adhesive for HSE substrates.	1.0 0.8 3.2	PET, Clear TC P1212 50# SC	•	•					
	\$ 7247	Extreme durability topcoat. Eliminates the need for protective overlaminates in many applications. Excellent high temperature resistance and adhesion to LSE plastics and smooth powder coats.	2.3 1.8 2.2	PET TT3, Matte Silver, 350 40# Densified Glassine	•	•					
	7879FL	Heavy adhesive coat weight for textured surfaces. Excellent adhesion to LSE plastics and powder coats.	3.3 1.8 1.5	PET, Silver TT TC 350 Polyester Film	•	•					
	7033	Aggressive adhesive for harsh environments. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 1.1 6.8	PET, Matte Silver TC 350 90# Polycoated Kraft	•						
Polyester Matte Silver	7222/ 7865	Durable, moisture resistant film. Adhesive offers adhesion to a variety of surfaces, including LSE plastics. Applications include durable goods in an outdoor environment, instructional messaging and schematic panels.	2.0 0.8 3.2	PET, Matte Silver Gloss TC 300 55# Densified Kraft	•	-	•				
	7813	Ultra-smooth matte topcoat resists scuffing, chemicals and moisture. Excellent durability with a wide variety of ribbons. Excellent adhesion to LSE plastics.	3.3 0.8 3.2	PET, Silver Matte TT TC 300 55# Densified Kraft	•						
	7883	Matte topcoat ideal for dot matrix printing applications. Excellent adhesion to LSE plastics.	3.3 0.8 3.2	PET, Silver DMI TC 300 55# Densified Kraft	•	•					
	7883HL	Heavy liner version of 7883 label stock for excellent liner stability in high humidity.	3.3 0.8 4.6	PET, Silver DMI TC 300 78# CCK	•	•					
	** 7818	Features ultra smooth matte topcoat, ideal for variable information applications. Good durability with a wide range of ribbons. Firm adhesive that resists oozing. Excellent durability.	3.3 0.8 3.2	PET, Silver TT TC 310 55# Densified Kraft	•	•					

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Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
	FM047202	Metalized film offers excellent thermal stability and moisture resistance. Quick tack high performance adhesive ideal for demanding applications, including powder coated paints.	2.0 1.2 3.2	PET, Matte Silver TC P1480 50# SC	•	•					
Polyester Matte Silver	OFM2402	Durable, moisture resistant film. Adhesion to a variety of surfaces, including LSE plastics. Designed for use on durable goods in an outdoor environment.	2.0 0.9 3.2	PET, Matte Silver TC P1400 50# SC	•						
(cont.)	FM092	Matte film with gloss topcoat. Adhesive offers good initial tack and excellent clarity and die cutting properties. Excellent choice for use in indoor nameplate applications.	2.0 0.9 3.2	PET, Matte Silver TC P1212 50# SC		•	•				
	FM043702	Thermal transfer printable topcoat. Designed for use in demanding environments including automotive underhood applications.	2.0 1.3 3.2	PET, Matte Silver TC P1650 50# SC		•	•				
	V 7873V	High abrasion and solvent resistance. Heavy adhesive coat weight for textured surfaces. Excellent high temperature resistance. Excellent adhesion to LSE plastics and powder coats.	2.0 1.8 3.2	PET, Versatile Print TC 350 55# Densified Kraft	•	•	•		-		
	7340FL	Highly differentiated facestock uses proprietary 3M reflective film technology to produce a mirror-like finish without metalization. Luminous reflectivity >98%.	2.5 1.1 1.5	PET, Mirror Finish 350 Polyester Film	•	•					
Polyester	V 7903V	High abrasion and solvent resistance. Good for indoor and outdoor use. Excellent bond to LSE plastics. 90# liner with layflat properties ideal for sheet and screen printing applications. Match a metallic look with gloss bright silver.	2.0 1.8 6.8	PET, Versatile Print PT 350 90# Polycoated Kraft	•	-	-		S		
Bright Silver	7903FL	Print-treated bright silver polyester with film liner suitable for domed decals.	2.0 1.8 4.0	PET, Bright Silver PT 350 Polyester Film	•						
	7924	Excellent abrasion and chemical resistance. Excellent adhesion to smooth LSE plastics. Ideal for indoor and outdoor applications. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 0.8 6.8	PET, Gloss Silver TC 300 90# Polycoated Kraft	•	-	-		6		
	V 7323V/ 7863V	High abrasion and solvent resistance. Good for indoor and outdoor use. Excellent bond to LSE plastics. Match a metallic look with gloss bright silver.	2.0 0.8 3.2	PET, Versatile Print TC 300 55# Densified Kraft	-	•	-		-		

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Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
	€ OFM2802	Durable, moisture resistant film. Adhesion to a variety of surfaces, including LSE plastics. Designed for use on durable goods in an outdoor environment.	2.0 0.9 3.2	PET, Bright Silver TC P1400 50# SC	•	•					
Polyester Bright Silver (cont.)	FM062	General purpose adhesive. Excellent die cutting properties.	2.0 0.9 3.2	PET, Bright Silver TC P1212 50# SC	•						
	9017FL	Bright silver with thick polyester liner suitable for domed decals. Thick, high-performance adhesive for durable graphic applications.	2.0 5.0 4.0	PET, Bright Silver PT 200MP Polyester Film	•	•			-		
	V 7909V	High abrasion and solvent resistance. 90# liner with layflat properties ideal for sheet and screen printing applications. Applications include heavy machinery, name plate, and safety labeling.	2.0 1.8 6.8	PET, Versatile Print TC 350 90# Polycoated Kraft	-				S		
Polyester	€ 7214SA	Adhesive allows releases trapped air to prevent bubbling for easy application of large format graphics. Ideal for applications where outgassing is a concern. High performance adhesive provides great adhesion to HSE and LSE surfaces, powder coated paint, and slightly oily metals. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 1.1 6.8	PET, Brushed Silver TC 350 90# Polycoated Kraft	-	-	-		6		
Brushed Silver	7028	Similar to 7909 with slightly lower coat weight for easier processing.	2.0 1.1 6.8	PET, Brushed Silver TC 350 90# Polycoated Kraft	•				S		
	OFM2902	Durable, moisture resistant film. Adhesion to a variety of surfaces, including LSE plastics. Designed for use on durable goods in an outdoor environment.	2.0 0.9 3.2	PET, Brushed Silver TC P1400 50# SC	•						
	9018FL	Brushed silver with thick polyester liner suitable for domed decals. Thick, high-performance adhesive for durable graphic applications.	2.0 5.0 4.0	PET, Brushed Silver PT 200MP Polyester							
Polyester Platinum	V 7872V	High abrasion and solvent resistance. Excellent high temperature resistance and adhesion to LSE plastics and smooth powder coats. Broad applications in automotive, electronics, healthcare, heavy machinery, general industrial. Differentiate your labels with a unique platinum metallic appearance.	2.0 1.8 3.2	PET, Versatile Print TC 350 55# Densified Kraft	-						
	V 7875V	High abrasion and solvent resistance. Durable label material with firm adhesive to resist oozing. Differentiate your labels with a unique platinum metallic appearance.	2.0 0.8 3.2	PET, Versatile Print TC 310 55# Densified Kraft	•						
Vinyl	7904	Conformable to contoured surfaces. Excellent adhesion to LSE plastics and textured powder coats. 90# liner with layflat properties ideal for sheet and screen printing applications.	3.4 1.8 6.8	Soft White Vinyl NTC 350 90# Polycoated Kraft					6		
White	7605	Conformable to contoured surfaces. Excellent adhesion to LSE plastics and textured powder coats.	3.4 1.8 3.2	Soft White NTC 350 55# Densified Kraft	•						

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				Construction			Prin	t Met	hod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
	7930T	Resists one-piece removal. Facestock fractures and tears easily. Excellent adhesion to powder coating, LSE plastics and oily metals. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 0.8 6.8	White Destructible TC 350 90# Polycoated Kraft	•	-			S		
	7053	Semi-flexible, non topcoated film. 90# liner with layflat properties ideal for sheet and screen printing applications.	4.0 1.1 6.8	Soft Clear Vinyl NTC 350 90# Polycoated Kraft					6	•	
	7604FP	Topcoated, conformable to contoured surfaces. Consistent, high-speed dispensing. Excellent squeeze bottle performance.	3.5 1.2 3.2	Soft White TC3 300 55# Densified Kraft	•	•	•				
	7902	Non-topcoated. Conformable to contoured surfaces. 90# liner with layflat properties ideal for sheet and screen printing applications.	3.5 1.2 6.8	Soft White Vinyl NTC 300 90# Polycoated Kraft					6		
	€ FV027805	Flexible film, ideal for printing with solvent, UV inkjet or UV flexo inks. High-tack and peel adhesive suitable for outdoor, textured LSE substrates. 90# liner with layflat properties ideal for sheet and screen printing applications.	3.2 1.1 6.8	Soft White Vinyl NTC P1480 90# Polycoated Kraft					6		
	FV029405	Extended life, white vinyl offers durability and moisture resistance, and long-term dimensional stability for demanding applications. High performance tackified acrylic formulated for acid resistance and adhesion to polyolefins. 90# liner with layflat properties ideal for sheet and screen printing applications.	3.8 1.1 6.8	Soft White EL Vinyl P1480 90# Polycoated Kraft					6		
Vinyl White (cont.)	FV023202	High initial tack adhesive with good moisture resistance. Performs well in ladder label applications.	3.5 1.2 3.2	Soft White TC3 P1480 50# SC	•	•					
(00110)	7045	Non-topcoated film with good conformability. Excellent choice for curved surfaces. 90# liner with layflat properties ideal for sheet and screen printing applications.	3.2 0.9 6.8	Soft White Vinyl NTC P1400 90# Polycoated Kraft			-		S		
	\$ 7049	Non-topcoated film with good conformability. Excellent choice for curved surfaces. General purpose adhesive for a variety of surfaces. High performance adhesive. 90# liner with layflat properties ideal for sheet and screen printing applications.	3.8 0.9 6.8	Soft White EL Vinyl NTC P1400 90# Polycoated Kraft					6		
	OFV0202	Designed for use in outdoor applications. Good adhesion to HSE and LSE plastics.	3.5 0.9 3.2	Soft White TC3 P1400 50# SC	•						
	FV032	Soft conformable vinyl that offers durability and moisture resistance. General purpose adhesive.	3.5 0.9 3.2	Soft White TC3 P1212 50# SC	•						
	FV172	Soft conformable translucent vinyl that has been topcoated for water-based flexo inks. High clarity general purpose adhesive.	3.5 0.9 3.2	Soft Translucent TC1 P1212 50# SC	•	•					
	FV018602	Topcoated black vinyl for press printing.	3.5 0.9 3.2	Soft Black Vinyl TC6 P1212 50# SC	•						
	FV292	Adheres to a variety of surfaces including polyolefins. Excellent choice for wire marking applications.	3.5 0.9 3.2	Soft White TC3 P1410 50# SC							

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Co-To Product S 90# polycoated kraft liner is specifically designed for screen printing.

				Construction			Prin	t Metl	hod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
Vinyl White	IJ39-20	Flexible film ideal for solvent or UV inkjet printable applications. High-tack and peel adhesive ideal for outdoor applications. Printed 3M [™] Scotchcal [™] 90# liner with layflat properties ideal for sheet and screen printing applications.	3.5 1.2 6.8	White Vinyl Permanent Acrylic 90# Polycoated Kraft					6	•	
(cont.)	7901	Non-topcoated. High bond, but offers clean removability on most surfaces for up to one year. Excellent for plasticizer resistance. 90# liner with layflat properties ideal for sheet and screen printing applications.	3.5 1.0 6.8	Soft White Vinyl NTC 500 90# Polycoated Kraft					6		
Vinyl	3690E+	Flexible and conformable white 3M [™] Scotchcal [™] Film with outstanding weathering properties. Non-transferable on some surfaces.	2.0 1.0 3.2	Bright White NTC 320 90g/sm glassine							
Cast	3698E+	Flexible and conformable silver 3M [™] Scotchcal [™] Film with outstanding weathering properties. Non-transferable on some surfaces.	2.0 1.0 3.2	Matte Silver NTC 320 90g/sm glassine							
3M [™] Water-based	0 7790-IJ	Topcoat uniquely designed for waterbased inkjet print systems. Durable facestock and adhesive stand up to harsh environments. BS5609 certified durable label. Ideal for use in chemical drum labeling applications.	5.0 1.1 3.2	PP, Waterbased Inkjet TC 350 55# Densified Kraft							
Inkjet Poly-propylene	O FP033-IJ	Topcoat uniquely designed for waterbased inkjet print systems. Durable facestock and adhesive stand up to harsh environments. Emulsion-based high performance LSE adhesive with high-tack for demanding applications. Broad applications in general industrial.	5.0 1.4 3.2	PP, Waterbased Inkjet TC P1480 50# SC				•			
	3	Bright white facestock offers high opacity. Film stiffness allows for easy die cutting and dispensing for automatic applications. Can be thermal transfer printed with resin ribbon.	2.6 0.9 3.2	Polypropylene Label Permanent Acrylic 50# Densified Kraft							
	7779	Same as 7777 except with 350 adhesive. Excellent adhesion to powder coats and LSE plastics.	2.6 1.1 3.2	Polypropylene Label 350 55# Densified Kraft	•						
	76716NA	Extreme durability when printed with 3M [™] Durable Resin Ribbon 92904.	2.6 1.1 3.3	Polypropylene Film 350 55# Densified Kraft	•						

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Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
	7776	Light-duty facestock with firm adhesive that resists oozing.	2.6 0.8 3.2	Polypropylene Label 310 55# Densified Kraft	•	•	•				
Poly-propylene	FP022102	High performance adhesive designed for demanding LSE substrates. Matte film.	3.0 1.2 3.2	PP, EDP P1480 50# SC	•	-					
Poly-propylene White (cont.)	C FP029102	High performance adhesive with high-tack and peel from difficult textured LSE plastics.	2.6 1.2 3.2	PP, TC2S P1480 50# SC	•	-					
	FP016102	Conformable moisture resistant film. Freezer-grade adhesive that can be applied at temperatures as low as 0°F.	2.3 0.8 3.2	PP, TC2S F2201 50# SC	·	•					
Poly-propylene Clear	FP102	General purpose adhesive offers excellent adhesion to a wide variety of substrates, including polyolefins.	2.0 0.9 3.2	PP, Clear TC P1410 50# SC	•	•					
Poly-propylene Metalized	FP032302	White opaque adhesive paired with metalized film offers exceptional opacity.	2.3 1.1 3.2	PP, Metalized TC P1655 50# SC	•	•					
	C FPE06602	Conformable film suitable alternative to vinyl label materials. Aggressive adhesive designed to adhere to both LSE and HSE surfaces.	2.5 1.1 3.2	White Polyethylene P1480 50# SC	•	•					
Poly-ethylene	FPE42	Conformable film suitable alternative to vinyl label materials. Aggressive adhesive designed to adhere to both LSE and HSE surfaces.	3.0 0.9 3.2	Clear Polyethylene P1410 50# SC	•	•					
Teslin®	7841	Excellent toner anchorage. Good conformability. Good print contrast when bar coding.	7.0 0.8 3.2	Matte White Teslin [™] 310 55# Densified Kraft	•	•					

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😡 Go-To Product

				Construction			Prin	t Metl	nod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
	7004	Excellent quick stick and adhesion to low surface energy plastics.	4.0 0.9 2.5	60# Bright White High Gloss 300 43# Densified Kraft	-						
	2 7000	High-gloss for fine printing. Adheres well to curved surfaces. Ideal for pharmaceutical applications.	4.0 0.9 2.5	60# White High Gloss 320 43# Densified Kraft	-	-					
	7000FL	Same as 7000 with film liner.	4.0 0.9 1.5	60# White High Gloss 320 Polyester Film	-	•					
Paper	7011	Excellent flag resistance on small diameter vials. Used for unit dose pharmaceutical packages.	2.3 0.9 2.5	35# Coated Paper 320 43# Densified Kraft	•						
	7110	Readily fractures or delaminates. Ideal for tamper- resistant labeling. Provides write-on capability.	2.8 1.1 2.5	40# Uncoated Paper 320 43# Densified Kraft	-						
	\$ PS015402	Paper facestock with high performing adhesive for broad-based applications.	4.0 1.2 3.2	60# Semigloss P1480 50# SC	-						
	7142	Good thermal transfer printable facestock. Can be removed cleanly or repositioned on most substrates.	3.5 0.4 2.5	55# Coated Paper 1000 40# Kraft Glassine	-						
	\$ 7847	Two-layered film construction designed for laser etching provides excellent long-term durability for critical information.	2.4 1.2 3.2	Matte Black/White 350 55# Densified Kraft							
Acrylate	3 921	Offers ultra-high temperature performance. Thermal transfer printable.	2.0 1.0 3.0	Matte White Acrylate 150 55# Densified Kraft	-						
	76999	Offers ultra-high temperature performance. Thermal transfer printable with un-branded liner.	2.0 0.8 3.2	Matte White Acrylate 150 C2S Glassine Liner	-						
Polyimide White	7812	Offers ultra-high temperature performance. Easy readability of bar codes. Thermal transfer printable.	2.0 2.0 3.2	Polyimide, Matte White 100 50# Densified Kraft	-						
Aluminum Foil	7940	Vinyl topcoated for ink receptivity. Heavy adhesive coat weight suitable for textured surfaces. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 1.7 6.8	Matte Silver TC 320 90# Polycoated Kraft		•			6		
Silver	7800	Vinyl topcoated for ink receptivity. Heavy adhesive coat weight suitable for textured surfaces. Excellent adhesion to LSE plastics.	2.0 1.7 3.0	Matte Silver TC 320 60# Densified Kraft					-		

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3M[™] Removable Label Materials

				Construction			Prin	t Metl	nod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
Polyester	FM01972	Matte film that offers thermal stability. Suitable for masking applications.	2.0 0.8 3.2	PET, White MC R3500 50# SC	-						
White	FM1732R	Thermal transfer printable with resin ribbons. Removable from a variety of surfaces.	2.0 0.8 3.2	PET, White TC R3500 50# SC	-						
Vinyl	\$ 7600	Top-coated, high bond, but offers clean removability on most surfaces for up to one year. Excellent for plasticizer resistance. Key applications include automotive masking, outdoor removable.	3.5 1.0 2.5	Soft White Gloss TC 350 43# Densified Kraft	-						
White	FV1222	Soft conformable vinyl that offers long-term adhesion with clean removability.	3.5 0.8 3.2	Soft White Vinyl TC3 R3500 50# SC	-						
Polypropylene White	\$ FP016902	Good conformability and removability from a variety of surfaces. Excellent alternative to static cling.	2.3 0.8 3.2	PP, White TC2S R3500 50# SC							
	FP56N	Clear conformable label offers long-term adhesion with clean removability. Excellent alternative to static cling with film liner for high speed dispensing.	2.0 0.8 1.5	PP, Clear TC2S R3500 Polyester Film	-						
Polypropylene Clear	\$ FP0862	Clear conformable label offers long-term adhesion with clean removability. Excellent alternative to static cling.	2.0 0.8 3.2	PP, Clear TC2S R3500 50# SC	-						
	FP024402	Specially formulated adhesive designed to be easily removable from a variety of surfaces. Offers lower peel and tack than R3500 adhesive.	2.0 0.8 3.2	PP, Clear TC2S R3800 50# SC	-						

*3M[™] Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.

${\it Stable, clean removal - even outdoors.}$

Select your range of strength, stability, adhesion and removability. These label materials feature our specially formulated acrylic adhesives, which include 3M[™] Removable Adhesive 500 for stable, clean removal even during long-term outdoor applications. 3M[™] Removable Adhesive R3500 is for use on smooth surfaces such as glass and plastics. Liners provide added versatility during processing such as die cutting, laminating and kiss cutting.



😡 Go-To Product

3M[™] Tamper Evident Label Materials

	Construction		Construction			Prin	t Metl	nod*			
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
	3 7613T	Resists one-piece removal. Facestock fractures and tears easily. Excellent adhesion to powder coating, LSE plastics and oily metals.	2.0 0.8 3.2	White Vinyl TC 350 55# Densified Kraft	•	•	•				
	7930T	Same as 7613T, except with 90# polycoated kraft liner.	2.0 0.8 6.8	White Vinyl TC 350 90# Polycoated Kraft	•				6		
Destructible Facestocks	3 812	This destructible, non-shrink white film is designed as a non-removable security label. Once applied in a correct manner, one-piece removal is not possible on most surfaces.	1.6 1.2 3.2	Urethane, Matte White 350 Glassine	•	•	•				
	7110	Readily fractures or delaminates. Ideal for tamper-resistant labeling. Handwritable.	2.8 1.1 2.5	40# Uncoated White Paper 320 43# Densified Kraft							
	FA112	High-quality film resists one piece removal, fractures easily. Good initial tack adhesive.	2.0 0.9 3.2	Clear Acetate P1212 50# SC		•					
	7380	Tamper evident VOID. Ideal for security rating plates and certification plates.	2.3 0.8 3.2	Matte White VOID DMI TC 300 55# Densified Kraft	•	•					
	3 7381/7866	Used for closures in packaging of OTC drugs. Facestock resists harsh environments.	2.0 0.8 3.2	Gloss White VOID TC 300 55# Densified Kraft	•	•	•				
	7384	Tamper evident VOID. Mirror finish hides security feature. Ideal for security closure seal.	2.0 0.8 3.2	PET, Bright Silver TC 300 55# Densified Kraft	•	•	•				
Polyester Tamper Indicating Films	7935	Facestock resists harsh environments. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.0 0.8 6.8	Gloss White VOID TC 300 90# Polycoated Kraft	•	•	•		S		
	7937	Ideal for security rating plates and certification plates. 90# liner with layflat properties ideal for sheet and screen printing applications.	2.3 0.8 6.8	Matte White VOID DMI TC 300 90# Polycoated Kraft	•	•	•	•	6		
	FMV22	Thermal transfer printable VOID label. General purpose adhesive offers excellent adhesion to a wide variety of substrates, including polyolefins.	2.0 0.9 3.2	White VOID TC P1410 50# SC	•						

*Can be used to display the UL listing mark, but each case must be reviewed and approved by UL follow-up services before use.



Peace of mind you can readily see.

3M[™] Tamper Evident Labels fracture from many surfaces when label removal is attempted, providing security and peace of mind. Tamper evident options include "void" messages, triangle shapes, or destructible facestocks. These tamper evident security labels feature adhesives that provide permanent or non-permanent markings on numerous substrates.

😮 Go-To Product 🛛 📀 90# polycoated kraft liner is specifically designed for screen printing.

3M[™] Overlaminate Label Materials

				Construction	Print Method*							
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet	
	0	Non-topcoated. Film liner offers excellent graphic	1.0	PET, Clear NTC 400								
	7730FL	appearance. Excellent durability and UV resistance.	0.8 1.5	400 Polyester Film								
	7731FL	Non-topcoated. Same as 7730FL, except with 2.0 mil facestock.	2.0 0.8 1.5	PET, Clear NTC 400 Polyester Film								
	2 7733FL	Ideal for long-term outdoor applications. Special UV resistant film provides 3 years outdoor durability.	1.0 0.8 1.5	PET, Clear UV 400 Polyester								
Polyester Gloss Clear	7741	Non-topcoated. Excellent abrasion, chemical, and UV resistance.	1.0 0.8 2.5	PET, Clear NTC 400 43# Densified Kraft								
	8417	Non-topcoated. Solvent resistant and high heat tolerance. Ideal for fuel line identification. Intended for use with 8418.	1.0 1.2	PET, Clear NTC 100								
	OFM010N	Excellent UV resistance. Designed for indoor and outdoor overlaminating applications.	1.0 0.8 1.5	PET, Clear NTC P1400 Polyester Film								
	C FM011	Basic polyester overlaminating film with high clarity adhesive.	1.0 0.8 2.5	PET, Clear NTC P1212 40# SC								
	FM452	Heavy gauge durable non-topcoated film designed for overlaminating applications. Abrasion resistant. Designed for indoor applications.	5.0 0.9 3.2	PET, Clear NTC P1212 50# SC								
	FM45N	Same as FM452 with a film liner for ultimate adhesive clarity.	5.0 0.9 1.5	PET, Clear NTC P1212 Polyester Film								
	7732FL	Non-topcoated. Film liner offers excellent graphic appearance. Excellent durability and UV resistance.	1.0 0.8 1.5	PET, Matte NTC 400 Polyester Film								
	7742	Non-topcoated. Excellent abrasion, chemical, and UV resistance.	1.0 0.8 2.5	PET, Matte NTC 400 43# Densified Kraft								
Polyester Matte Clear	3 7744FL	Thermal transfer printable matte topcoat. Ideal where variable information is needed. Film liner provides smoother adhesive appearance.	1.3 0.8 1.5	PET, Matte TT TC 400 Polyester Film	•	•						
	7745FL	Higher matte finish than 7744FL. Can be used in laser and handwritable applications.	1.3 0.8 1.5	PET, Matte DMI TC 400 Polyester Film	•	•						
	FM071	Matte clear film for general purpose overlaminating applications.	1.0 0.8 2.5	PET, Matte NTC P1212 40# SC								

*Can be used to display the UL listing mark, but each case must be reviewed and approved by UL follow-up services before use.

Designed for superior label protection.

These 3M materials offer UV and high temp resistance which help to prevent color fading. The adhesive is formulated for bonding to challenging substrates. Densified and supercalendered kraft and polyester film liners make for efficient die cutting and auto dispensing. The durable facestocks resist abrasion, scuffs and weathering.



😡 Go-To Product

3M[™] Overlaminate Label Materials (cont.)

			Construction					
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner				
Acrylate Clear	\$ 7735FL	Ideal for long-term outdoor applications. Special UV resistant film and adhesive provides 10 years outdoor durability.	3.0 0.8 1.5	Matte Acetate 400 Polyester Film				
Acrylic Clear	8524	Clear satin overlaminate for outdoor applications. Ideal for use with 3M [™] Scotchcal [™] IJ8624. Resists acids, mild alkalis, and salts.	2.0 0.9 3.2	UV Resistant Film P1212 50# SC				
Vinyl Clear	FV02490N	Textured vinyl film is an alternative to polycarbonate for less demanding applications. High clarity adhesive with good initial tack and excellent die cutting properties.	5.0 0.9 1.5	Textured Vinyl NTC P1212 Polyester Film				
	7737FL	Used to achieve the appearance of a subsurface screen printed polycarbonate.	3.0 0.8 1.5	Velvet Clear Lexan [™] 400 Polyester Film				
	7738FL	Same as 7737FL, except with 5.0 mil facestock.		Velvet Clear Lexan [™] 400 Polyester Film				
Polycarbonate Clear	FL01N	Liner offers high strength and caliper control. Recommended where the clarity of the adhesive is critical.	5.0 1.1 1.5	Velvet Clear Lexan [™] P1212 Polyester Film				
	FL02N	Similar to 7737FL. Designed for indoor use.	3.0 1.1 1.5	Velvet Clear Lexan [™] P1212 Polyester Film				
	OFL010N	Specialty durable polycarbonate overlaminate. High performance adhesive formulated for demanding applications. Adheres to a variety of surfaces. Excellent UV resistance.	3.0 1.0 1.5	Velvet Clear Lexan [™] P1400 Polyester Film				

3M[™] Specialty Label Materials

			Construction		Print Method*						
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
Automotive Appl	ications: EV B	attery Label Materials									
Polyester	♥ 7871V	High abrasion and solvent resistance. Excellent high temperature resistance and adhesion to LSE plastics and smooth powder coats. Specialty applications in automotive EV battery, GHS drum labeling. BS5609 certified durable label.	2.0 1.8 3.2	PET, Versatile Print TC 350 55# Densified Kraft							
Polyethylene	FPE06602	Conformable film suitable alternative to vinyl label materials. Aggressive adhesive designed to adhere to both LSE and HSE surfaces.	2.5 1.1 3.2	White Polyethylene P1480 50# SC							

*3M[®] Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.

😯 Go-To Product 🛛 🔍 Versatile Print Label Materials

3M[™] Specialty Label Materials (cont.)

				Construction			Prin	t Metl	nod*		
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
Automotive Applic	cations: VIN	Label Material									
Acrylate	7847	Two-layered film construction designed for laser etching provides excellent long-term durability for critical information.	2.4 1.2 3.2	Matte Black/White 350 55# Densified Kraft				•			
Automotive Applie	cations: Tire	Label Materials									
Polypropylene	FP019802	Non-patterned tire tread label material with rubber based adhesive. Ideal for automated applications.	2.6 1.5 3.2	PP, T2S P1110 50# SC	•	•					
Teslin	FTS0700	Bead label for	7.0 1.5 3.2	Teslin P1110 50# SC	•	•					

*3M[®] Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.



Extreme bonding to treated rubber.

3M[™] Tire Label Materials are designed specifically for tire labeling. Our 3M[™] Adhesive P1100 are permanent, rubber-based, pressure-sensitive adhesives designed for performance on vented and non-vented tire treads.

3M[™] Specialty Label Materials (cont.)

				Construction	Print Method*						
Facestock	Product	Typical Performance Characteristics	Caliper (mils)	Facestock Adhesive Type Liner	Thermal Transfer	Flexographic	UV Inkjet	Laser/Toner-Based	Screen	Solvent Inkjet	Water Inkjet
3M [™] Specialty H	ealth Care A	oplications									
3M[™] Versatile Print Polyester, Gloss White	V 7331V	High abrasion and solvent resistance. Good for indoor and outdoor use. Excellent bond to LSE plastics. Ideal for medical device applications.	2.0 0.8 3.2	PET, Versatile Print TC 300 55# Densified Kraft	•						
3M [™] Water- based Inkjet Polyester	0 7882-IJ	Excellent cold temperature performance for a wide range of applications. Ideal for freezer or pharmaceutical applications.	3.0 0.8 3.2	PET, Waterbased Inkjet TC 400 55# Densified Kraft							•
Paper	€ 7000	High-gloss for fine printing. Adheres well to curved surfaces. Ideal for pharmaceutical applications.	4.0 0.9 2.5	60# White High Gloss 320 43# Densified Kraft	-	•					
гары	7000FL	Same as 7000 with film liner.	4.0 0.9 1.5	60# White High Gloss 320 Polyester Film	•	•	•				
Litho Tamper-	7110	Readily fractures or delaminates. Ideal for tamper-resistant labeling. Handwritable.	2.8 1.1 2.5	40# Uncoated Paper 320 43# Densified Kraft	•	-					
Indicating White	7011	Excellent flag resistance on small diameter vials. Ideal for unit dose pharmaceutical packages.	2.3 0.9 2.5	35# Coated Paper 320 43# Densified Kraft	-	-					
Polyolefin	FP035402	Offers excellent durability, conformability and moisture resistance. Ideal for blood bag applications.	3.3 1.3 3.1	Matte White Polyolefin P1650 50# SC							

*3M[™] Durable Label Materials have been tested with various print systems with positive results. Print systems vary, so please request a sample and test in your specific application.



Meeting the demands of Health Care applications. A range of adhesives makes for reliable performance without flagging on small diameter plastic vials, in autoclaves and where tamper evidence is a main concern.

😯 Go-To Product 🛛 💟 Versatile Print Label Materials 🔹 🚺 Water-based Inkjet Label Materials

Single Coated Tapes **Everyday** task masters.

High temperatures or low. Indoor or outdoor. There's a 3M tape for masking, splicing, holding, sealing, bundling and marking.

Learn more at: 3M.com/Specialty

3M[™] Anodizing Masking Tape 8985L

Survives chromic acid with excellent masking lines and clean one-piece removal.

Selecting the right product for the job.

To help you make sure you find the optimum 3M tape or other adhesive-backed product for your particular application, you'll want to consider several factors:

- Backing material
- Adhesive type
- Application time and temperature
- Surface characteristics (e.g., roughness, surface energy, contours, etc.)
- End use conditions (e.g., temperature, UV exposure, abrasion, etc.)

The information on these two pages integrates those factors to help you narrow your selection to fewer products for a more in-depth evaluation.

3M Backing Materials

In many applications, 3M backings add a second surface that affects how the underlying surface relates to the environment.

To optimize that relationship, 3M backings offer a wide choice of performance and handling characteristics.

3M Pressure Sensitive Adhesives

Most of the products in this section feature a 3M pressure sensitive adhesive that bonds the backing to another surface on contact. Each adhesive has different characteristics that affect production and end use performance.

Backings	Characteristics
Paper	
Crepe	Conformable, easy tear.
Flatback	Strong, smooth, good for straight line masking.
Kraft	Strong, some versions are repulpable.
Tissue	Thin, porous to allow adhesive penetration of sheet.
Plastic	
Polyester	Strong even when thin, chemical resistant, high temperature resistance.
Polypropylene	Resistant to most solvents, conformable, tear resistant.
Polyethylene	Conformable, easy to stretch, chemical/acid/moisture resistant, economical.
Polyethylene/Polypropylene Co-polymer	Conformable, chemical/acid/moisture resistant.
UHMW-PE	High abrasion resistance, low coefficient of friction, anti-stick surface easy to clear
Polyvinyl Chloride (Vinyl)	Conformable, abrasion resistant, resistant to most chemicals.
Polyimide	High temperature resistance, excellent dimensional stability, good insulation properties.
Polyamide (Nylon)	High temperature resistance, high strength and toughness, good chemical resistance but can absorb moisture.
Polytetrafluoroethylene (PTFE)	Low coefficient of friction, excellent high temperature and chemical resistance, anti-stick/release properties.
Polyvinyl Alcohol (PVA)	Water-soluble, organic solvent resistant, high temperature resistance.
Polyurethane	Abrasion/scratch resistant, impact/puncture resistant, UV and corrosion resistant.
Polyvinyl Fluoride	Excellent weather resistance, excellent long-term UV resistance, thin yet stiff feel.
Cloth	
Cotton	Strong, easy tear by hand, soft and drapable.
Glass Cloth	Strong, high temperature resistance, flame-resistant.
Vinyl Coated	Strong yet hand tearable, abrasion resistant, water-resistant, conformable.
Non-woven	
Fiber	Air permeable, strong enough to hold expanding foams.
Metals	
Aluminum	Heat and light reflective, moisture and chemical resistant, flame-resistant, outdoor weather resistant, conformable.
Copper	EMI/RFI shielding.
Lead	Electrically conductive, acid resistant, high conformability, x-ray opacity.
Stainless Steel	Corrosion resistant.
Rubber	
Neoprene	Abrasion resistant, die-cuttable
Combination (Laminates)	
Paper/Polyethylene	Weather and chemical resistant, hand tearable, stretch resistant.
Metalized/Polyester	Reflective, decorative.
Glass Cloth/PTFE	High temperature resistance, high strength.
Glass Cloth/Aluminum	Very high temperature resistance, high strength.
Non-woven/Aluminum	High heat and cold resistance.

	Adh	esives	
Rubber	Standard Acrylic	Modified Acrylic	Silicone
High initial bond	Moderate initial bond	Bonds to wider variety than standard acrylic	Fair initial bond
Softer	Firmer	Softer	Very firm
Widest variety of surfaces including low surface energy materials*	High surface energy*	Many surfaces	Fewer surfaces
Up to 350°F	Up to 450°F	Up to 300°F	Up to 600°F, excellent low temperature performance
Fair chemical resistance	Excellent chemical resistance	Good chemical resistance	Excellent chemical resistance
Fair UV resistance	Excellent UV resistance	Moderate UV resistance	Excellent UV resistance
Poor aging	Excellent aging	Durable	Excellent aging
Removable	Permanent	Various	Removable
Good solvent resistance	Excellent solvent resistance	Good solvent resistance	Excellent solvent resistance

*Surface energy ranges from high to low. The substrate must be unified, dry, and clean to maximize adhesive contact.

Selecting the best backing and adhesive.

Backings: Each Backing is Rated in Eight Critical Categories

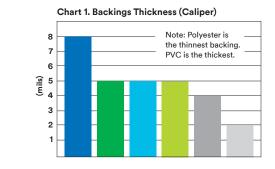
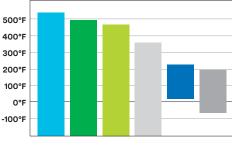
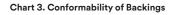


Chart 2. Temperature Range Tape Backings





Key to Charts 1-8

PE=Polyethylene

PET=Polyester

MF=Metal Foil

GC=Glass Cloth

PVC=Polyvinylchloride

PTFE=Polytetrafluoroethylene

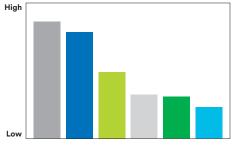
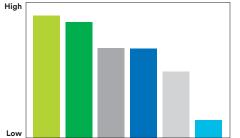


Chart 6. Chemical Resistance of Backings





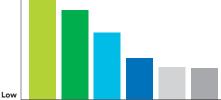
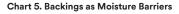


Chart 7. Solvent Resistance of Backings





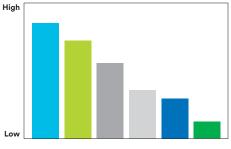
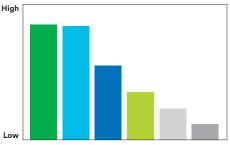
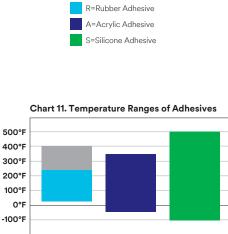


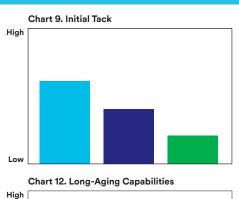
Chart 8. Resistance to Recovery (Dead Stretch)



Adhesives: Each Adhesive is Rated in Five Critical Categories



Key to Charts 9–13





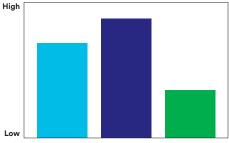
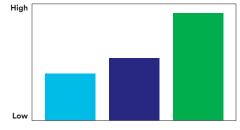


Chart 13. Cost of Adhesives



Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

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3M[™] Single Coated Tapes

				Total Caliper	Backing				
Material (alphabetical order)	Product	Typical Performance Characteristics/ Application Ideas	Color	mils (mm)	Material	Caliper mils (mm)	Adhesive Type	Specs	Temperature Range °F (°C)
	363/ 363L	An aluminum foil/glass cloth tape that can be used as a high temperature, heat reflective, protective wrap for certain cables and other components in aerospace and industrial applications. 363L is linered version.	Silver	7.3 (0.19)	Aluminum Foil Laminated to Glass Cloth	3.4 (0.09)	Silicone	F.A.R. 25.853(a)	-65 to 600 (-54 to 316)
	2 425	Dead-soft aluminum foil tape. Masking of sensitive components to protect from damage during aircraft paint stripping. In white goods appliances, tape provides an excellent moisture barrier, helps reflect and dissipate heat.	Silver	4.6 (0.12)	Aluminum Foil	2.8 (0.07)	Acrylic	F.A.R. 25.853(a); SAE AMS T-23397; UL 723; UL 746C; LT-80 C	-65 to 300 (-54 to 149)
	427	Dead-soft aluminum foil tape. Linered version of 425 that can be easily die-cut into special sizes or shapes. Mask sensitive components to protect from damage during paint stripping or reflect and dissipate heat.	Silver	4.6 (0.12)	Aluminum Foil	2.8 (0.07)	Acrylic	F.A.R. 25.853(a); UL 723; UL 746C; LT-80 C	-65 to 300 (-54 to 149)
Premium Performance Aluminum Foil Tape	431	Dead-soft aluminum foil with transparent acrylic adhesive for many permanent sealing, holding, splicing or masking applications requiring the protection offered by a foil backing.	Silver	3.1 (0.08)	Aluminum Foil	1.9 (0.05)	Acrylic	F.A.R. 25.853(a)	-65 to 300 (-54 to 149)
	433	Dead-soft aluminum foil backing with silicone adhesive that can be used in many high temperature applications.	Silver	3.6 (0.09)	Aluminum Foil	2.0 (0.05)	Silicone	F.A.R. 25.853(a); US Gov A-A-59258; MIL-T-47014	-65 to 600 (-54 to 316)
	433L	Linered version of 433.	Silver	3.5 (0.09)	Aluminum Foil	2.0 (0.05)	Silicone	F.A.R. 25.853(a)	-65 to 600 (-54 to 316)
	437	Dead-soft aluminum foil tape. Aggressive acrylic adhesive.	Silver	8.0 (0.20)	Aluminum Foil	2.8 (0.07)	Acrylic	_	-40 to 212 (-40 to 100)
	438	Thickest aluminum tape.	Silver	7.2 (0.18)	Aluminum Foil	5.0 (0.13)	Acrylic	F.A.R. 25.853(a)	-65 to 300 (-54 to 149)
	439	Linered version of 431.	Silver	3.1 (0.08)	Aluminum Foil	1.9 (0.05)	Acrylic	F.A.R. 25.853(a)	-65 to 300 (-54 to 149)
General Purpose Aluminum Foil Tape	3302	Aluminum foil tape. EMI/RFI shielding. Perforated.	Silver	3.5 (0.09)	Aluminum Foil	2.0 (0.05)	Conductive Acrylic	UL 510	-40 to 250 (-40 to 12)
	434	Aluminum foil constraining layer coated with a 2.0 mil (0.05mm) pressure sensitive viscoelastic polymer on a blue polyethylene easy-release liner. Controls resonant vibrations from -76°F to 68°F (-60°C to 20°C).	Silver	7.5 (0.19)	Aluminum	5.5 (0.14)	Viscoelastic Polymer	F.A.R. 25.853(a)	_
	435	Thicker version of 434. Controls resonant vibrations from -76°F to 68°F (-60°C to 20°C).	Silver	13.5 (0.34)	Aluminum	8.0 (0.2)	Viscoelastic Polymer	F.A.R. 25.853(a)	_
Aluminum Sound Damping Foil	436	Aluminum foil constraining layer coated with a 5.5 mil (0.14mm) pressure sensitive viscoelastic polymer on a blue polyethylene easy-release liner. Controls resonant vibrations from -76°F to 68°F (-60°C to 20°C).	Silver	17.5 (0.45)	Aluminum	12.0 (0.31)	Viscoelastic Polymer	F.A.R. 25.853(a)	_
	\$ 2552	Aluminum foil constraining layer coated with a 5.0 mil (0.13mm) pressure sensitive viscoelastic polymer on a polycoated paper easy-release liner. Controls resonant vibrations from -25°F to 175°F (-32°C to 80°C).	Silver	15.0 (0.38)	Aluminum	10.0 (0.25)	Viscoelastic Polymer	F.A.R. 25.853(a)	_
	4014	Foil/foam sheet laminate.	Silver	250.0 (6.35)	Aluminum- Urethane	3.0 (0.08)	Viscoelastic Polymer	F.A.R. 25.853(a)	

🔂 Go-To Product

3M[™] Single Coated Tapes (cont.)

				Total	Bacl	king		
Material (alphabetical order)	Product	Typical Performance Characteristics/ Application Ideas	Color	Caliper mils (mm)	Material	Caliper mils (mm)	Adhesive Type	Specs
	3 61	Glass cloth tape coated with a silicone adhesive for many applications requiring high temperature resistance, high adhesion and a very strong abrasion- resistant backing.	White	6.4 (0.16)	Glass Cloth	5.0 (0.13)	Silicone	F.A.R. 25.853
	3615	An easy unwind glass tape for many applications requiring high temperature resistance, high adhesion, and a very strong abrasion-resistant backing.	White	7.0 (0.18)	Glass Cloth	5.0 (0.13)	Silicone	_
Fiberglass	365	Splicing textured surfaces/thermosetting adhesive.	White	8.3 (0.20)	Glass Cloth	4.8 (0.12)	Thermoset Rubber	_
Cloth	3650	Splicing textured surfaces/thermosetting adhesive. Film linered version of 365.	White	8.3 (0.20)	Glass Cloth	4.8 (0.12)	Thermoset Rubber	_
	398FR	Glass cloth film tape with acrylic adhesive. Used for sealing seams on aircraft ducting and cargo area panels. Flame retardant. Skip-slit liner for ease of application.	White	7.0 (0.18)	Glass Cloth	5.0 (0.13)	Acrylic	BMS 5-146; F.A.R. 25.853(a); F.A.R. 25.855(d)
	398FRP	Printed backing version of 398FR.	White	7.0 (0.18)	Glass Cloth	5.0 (0.13)	Acrylic	BMS 5-146; F.A.R. 25.853(a); F.A.R. 25.855(d)
Lead Foil	420	Lead foil backing with rubber adhesive and a white, easy-release film liner.	Dark Silver	7.6 (0.19)	Lead Foil	5.0 (0.13)	Rubber	_
	421	Self-wound plating tape.	Dark Silver	6.6 (0.17)	Lead Foil	4.0 (0.10)	Rubber	_
Non-Woven	394	Air-permeable backing.	White	5.0 (0.13)	Non-Woven	4.5 (0.11)	Acrylic	_
	3294	Most permeable venting tape.	Pink	5.0 (0.13)	Non-Woven	4.5 (0.11)	Acrylic	_
	101+	Indoor use. Light-duty applications.	Tan	5.1 (0.13)	Crepe Paper	—	Rubber	—
	200	Good instant adhesion.	Tan	4.4 (0.11)	Crepe Paper	—	Rubber	_
	201+	General indoor use. Light-to-medium duty. Clean removal.	Tan	4.4 (0.11)	Crepe Paper	_	Solvent- Free Rubber	_
	202	Good holding power.	Tan	6.3 (0.16)	Crepe Paper	_	Rubber	ASTM D 6123; D 6123M-97
	203	Low temperature tape. General purpose masking tape for holding, bundling, sealing and more.	Beige	4.7 (0.12)	Crepe Paper		Rubber	_
	213	Good on anodized aluminum.	Tan	6.0 (0.15)	Crepe Paper	_	Rubber	ASTM D 6123; D 6123M-97
	214	Stain resistant.	Tan	5.8 (0.15)	Crepe Paper	_	Rubber	ASTM D 6123; D 6123M-97
_	225	Outdoor use.	Silver	5.8 (0.15)	Crepe Paper		Rubber	_
Paper	226	Outdoor use.	Black	10.6 (0.27)	Polyethylene/ Crepe Paper	_	Rubber	_
	231	Best all-purpose paint masking tape.	Tan	7.6 (0.19)	Crepe Paper	—	Rubber	ASTM D 6123; D 6123M-97
	231A	Best all-purpose paint masking tape.	Tan	7.6 (0.19)	Crepe Paper		Rubber	
	232	Good paint lines.	Tan	6.3 (0.16)	Crepe Paper		Rubber	_
	234	Excellent controlled unwind.	Tan	5.9 (0.15)	Crepe Paper	_	Rubber	ASTM D 6123; D 6123M-97
	250*	Flatback tape. Used in paint adhesion testing.	Tan	6.0 (0.15)	Flatback Paper			ASTM D 6123; D 6123M-97
-	253	Silicone butt splicing tape.	Tan	4.6 (0.12)	Treated Flatstock Paper	3.5 (0.09)	Silicone	_
	256*	Printable, accepts marking inks.	White, Red, Green	6.7 (0.17)	Flatback Paper		Rubber	ASTM D 6123; D 6123M-97

*Scotch® brand.

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3M[™] Single Coated Tapes (cont.)

				Total	Backing			
Material (alphabetical order)	Product	Typical Performance Characteristics/ Application Ideas	Color	Caliper mils (mm)	Material	Caliper mils (mm)	Adhesive Type	Specs
	301+	Good conformability to irregular surfaces. Great paint lines.	Yellow	6.3 (0.16)	Crepe Paper	_	Solvent- Free Rubber	_
	401+	Highly conformable to many surfaces. Superior adhesion to metal, rubber, glass and plastic. Great paint lines.	Green	6.7 (0.17)	Crepe Paper	_	Solvent- Free Rubber	_
	501+	Exceptionally conformable to irregular surfaces. Superior adhesion to metal, rubber, glass and plastic. Removes cleanly in one piece with no residue. Great paint lines.	Tan	7.3 (0.19)	Crepe Paper Treated with a Heat Resistant Saturant	_	High Temp Rubber	ASTM D 6123
	2214	Good for holding and bundling.	Tan	5.4 (0.14)	Crepe Paper	_	Rubber	_
	2307	Solvent-free construction; non-critical paint masking.	Tan	5.2 (0.13)	Crepe Paper	_	Rubber	_
	2308	Good transfer resistance.	Tan	5.3 (0.13)	Crepe Paper	_	Rubber	_
	2364	High temperature, crepe paper masking tape for general masking application. Good holding power.	Tan	6.5 (0.17)	Crepe Paper	_	Synthetic Rubber	ASTM D 6123; D 6123M-97
Paper	2380	High temperature. Best holding to widest variety of surfaces.	Tan	7.2 (0.18)	Crepe Paper	_	Synthetic Rubber	ASTM D 6123; D 6123M-97
(cont.)	2393	Smooth, heavy duty, high temperature masking tape.	Tan	7.6 (0.19)	Crepe Paper		Rubber	ASTM D 6123; D 6123M-97
	2460	For paint bake operations at temperatures up to 300°F (149°C). 14 days outdoor.	Gold	3.3 (0.08)	Flatback Paper	_	Acrylic	_
	2480S	A thin, strong, smooth flat back paper that gives sharp paint lines with low paint ridge. 60 days outdoor.	Green	4.0 (0.10)	Flatback Paper	_	Acrylic	_
	2510	General purpose masking tape for holding, bundling, sealing and general paint masking where a dark colored tape is required.	Black	5.6 (0.14)	Crepe Paper		Rubber	ASTM D 6123; D 6123M-97
	2515**	General purpose splicing, holding and bundling applications.	Tan	6.7 (0.17)	Kraft Paper	_	Rubber	_
	2517*	Excellent splicing, holding and bundling applications.	Medium Brown	6.5 (0.15)	Kraft Paper	_	Rubber	ASTM D 6123; D 6123M-97
	2525*	Premium splicing, bright color.	Orange	9.5 (0.24)	Flatback Paper	_	Rubber	_
	2526*	Excellent adhesion and strength for textile applications.	White	9.8 (0.24)	Flatback Paper	_	Rubber	_
	2693	Very aggressive holding; excellent for multi-bake paint cycles.	Tan	7.9 (0.20)	Crepe Paper	_	Synthetic Rubber	ASTM D 6123; D 6123M-97
D.I. S. S.	8997/ 8997L	Transparent film. High temperature applications. 8997L is linered version.	Amber	2.2 (0.06)	Polyimide	1.0 (0.02)	Silicone	_
Polyimide	8998/ 8998L	Transparent film. High temperature applications. 8998L is linered version.	Amber	3.3 (0.08)	Polyimide	2.0 (0.05)	Silicone	_

*Scotch[®] brand. **Tartan[™] brand.

				Total	Backi	ing		
Polyester 842 840 840 841 842 842 842 843 844 844 844 844 844 844 844 844 844	Product	Typical Performance Characteristics/ Application Ideas	Color	Caliper mils (mm)	Material	Caliper mils (mm)	Adhesive Type	Specs
	396	Adhesion to low energy surfaces.	Transparent	4.1 (0.10)	Polyester	1.4 (0.04)	Rubber	_
	\$	Polyester film tape with acrylic adhesive. Used for splicing, holding, decorating, color-coding and sealing.	Transparent, Red, Black, White, Silver	1.9 (0.05)	Polyester	1.0 (0.03)	Acrylic	_
	abetical order) Product Application Ideas 396 Adhesion to low energy sur \$350 Polyester film tape with acrysplicing, holding, decorating 853 Transparent polyester film ta adhesive. Used for butt splic 875 High-temperature, non-silic 8402 Splicing tape. Adheres well 8403/ Splicing tape. Adheres well 8403 Heavy-duty edge and hole 8421 Photo film splicing. 8422 Photo film splicing. 8421 Photo film splicing. 8902 High temperature masking 8902 High temperature masking	Transparent polyester film tape with solvent-resistant adhesive. Used for butt splicing and tabbing applications.	Transparent	1.9 (0.05)	Polyester	1.0 (0.03)	Acrylic	L-T-100 F.A.R. 25.853(a)
		High-temperature, non-silicone, composite bonding.	Seafoam Green	2.0 (0.05)	Polyester	1.0 (0.03)	Rubber	—
	876	High-temperature, non-silicone, composite bonding.	Seafoam Green	3.1 (0.08)	Polyester	2.0 (0.05)	Rubber	—
	8402	Splicing tape. Adheres well to silicone.	Translucent Green	1.9 (0.05)	Polyester	1.0 (0.03)	Silicone	—
		Splicing tape. Adheres well to silicone. 8403L is a linered version of 8403.	Translucent Green	2.4 (0.06)	Polyester	1.5 (0.04)	Silicone	_
Polyester	8412	Heavy-duty edge and hole reinforcing.	Transparent	6.3 (0.16)	Polyester	4.7 (0.12)	Acrylic	—
	8421	Photo film splicing.	White	2.3 (0.06)	Polyester	1.4 (0.04)	Rubber	_
Polyester	8422	Photo film splicing.	Black	2.3 (0.06)	Polyester	1.4 (0.04)	Rubber	_
	8437	Low emissivity, reflective tape. Metalized coating on both sides of the film.	Silver	1.9 (0.05)	Polyester	1.0 (0.03)	Acrylic	_
	8901	High temperature masking	Blue	2.6 (0.07)	Polyester	1.0 (0.03)	Silicone	—
	8902	High temperature masking	Blue	3.4 (0.09)	Polyester	2.0 (0.05)	Silicone	—
	8905	High temperature masking	Blue	6.5 (0.17)	Polyester	5.0 (0.12)	Silicone	_
	Pester 850 853 853 875 876 8402 8403/ 8403/ 8403/ 8412 8421 8422 8437 8901 8902 8905 8911 8985L 8991/ 8991/ 8992/ 8992/ 8993LC 218/ 218L 218L	High temperature label protection.	Transparent	2.7 (0.07)	Polyester	1.0 (0.03)	Silicone	_
	8985L	Survives chromic acid with excellent masking lines and clean one-piece removal.	Purple	3.9 (0.10)	Polyester	3.0 (0.08)	Rubber	—
		Thin tapes, powder coat masking, high temperature applications. 8991L is linered version.	Blue	2.4 (0.06)	Polyester	1.0 (0.03)	Silicone	_
	8992/	Powder coat and anodized masking, high temperature applications. 8992L is linered version.	Green	3.2 (0.08)	Polyester	2.0 (0.05)	Silicone	_
	8993LC	Protects finished surfaces from light abrasion, nicks and scratches during production, packaging and installation, process agent, rolls up products tape with deliver and assembly. Temporary holding tape.	Transparent	3.2 (0.08)	Polyester	3.0 (0.08)	Silicone	_
		Polypropylene plastic film tape with rubber adhesive. A high performance film backed tape with low profile and high adhesion to achieve excellent paint line and for other masking and holding applications. 218L is linered version.	Green	5.0 (0.13)	Polypropylene	_	Rubber	
Polypropylene	265	Composite masking where sharp, clean, gel-coat color separation lines are desired.	Green	5.1 (0.13)	Polypropylene	_	Rubber/ Silicone	_
	8087	Construction seaming tape.	Red	3.0 (0.08)	Biaxially Oriented Polypropylene Film	1.5 (0.04)	Acrylic	_

*Scotch® brand.

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S15 S15 S15 S15 S15 S15 S15 S15 S15 S45 S48 S48 S48 S49 S41 S42 S42 S42 Ultra High				Total	Backi	ing		
	Product	Typical Performance Characteristics/ Application Ideas	Color	Caliper mils (mm)	Material	Caliper mils (mm)	Adhesive Type	Specs
	5151/ 5151L/ 5151PL	A woven glass cloth impregnated with PTFE tape which provides a high temperature release surface for protection and insulation. 5151L is a linered version. 5151PL is a thicker, premium liner.	Light Brown	5.3 (0.13)	Glass Cloth Impregnated w/PTFE	3.0 (0.08)	Silicone	_
	S151/ 5151L/ 5151PL which protect 5151PL S151/ 5151PL which protect 5151PL S153/ 5153L Thicker 5451 A wove which protect 5453 Thicker 5453 Thicker 5480 Skived other si 5481 Heavy- wrappi 5481 Heavy- wrappi 5481 Heavy- wrappi 5481 Thicker 5493 Thicker 5491 Thicker 5498 Extrude adhesin 480 Good c abrasio 4811 Preserv 4831 Confor sealing 5421 Genera chutes, 5422 Solvent friction 5430 Transpo	Thicker version of 5151. 5153L is a linered version.	Light Brown	8.0 (0.20)	Glass Cloth Impregnated w/PTFE	5.8 (0.15)	Silicone	_
	5451	A woven glass cloth impregnated with PTFE tape which provides a high temperature release surface for protection and insulation.	Brown	5.6 (0.14)	Glass Cloth Impregnated w/PTFE	3.2 (0.08)	Silicone	_
	5453	Thicker version of 5451.	Brown	8.2 (0.21)	Glass Cloth Impregnated w/PTFE	6.0 (0.15)	Silicone	_
Slick Surface	5480	Skived PTFE film tape used for roller wrapping and other slick surface applications.	Gray	3.7 (0.09)	PTFE	2.0 (0.05)	Silicone	—
	5481	Heavy-duty skived PTFE film tape used for roller wrapping and other slick surface applications.	Gray	6.8 (0.17)	PTFE	5.0 (0.13)	Silicone	_
	-	PTFE Film tape with silicone adhesive used in many slick surface applications. Lay-flat backing.	Gray	3.7 (0.09)	PTFE	2.0 (0.05)	Silicone	_
	5491	Thicker version of 5490.	Gray	6.7 (0.17)	PTFE	5.0 (0.13)	Silicone	-
	5498	Extruded PTFE film tape with rubber silicone-free adhesive.	Brown	4.0 (0.10)	PTFE	2.0 (0.05)	Rubber	_
	480	Good chemical and solvent resistance, conformable, abrasion resistant.	Transparent	5.1 (0.13)	Polyethylene	4.0 (0.10)	Acrylic	_
	481	Preservation sealing tape. Clean removal up to 2 years.	Black	9.5 (0.24)	Polyethylene	7.5 (0.19)	Rubber	SAE-AMS- T-22085, Type II
Polyethylene	4811	Preservation sealing tape. Clean removal up to 1 year.	White	9.5 (0.24)	Polyethylene	7.5 (0.19)	Rubber	-
	-	Conformability, UV resistance, and clean removal for sealing end cap on metal pipes stored outdoors.	Black, Blue, Green, Red, White, Yellow, Transparent	5.0 (0.13)	Polyethylene	3.9 (0.10)	Rubber	MIL-STD 2041D (SH)
	5421	General purpose tape to protect plastic and metal chutes, guide rails and containers from wear.	Transparent	6.7 (0.17)	UHMW-PE	5.0 (0.13)	Rubber	_
		Excellent abrasion resistance and low coefficient of friction makes this an effective solution for noise and vibration problems.	Transparent	11.7 (0.30)	UHMW-PE	10.0 (0.25)	Rubber	_
Molecular Weight	5425	Solvent resistant adhesive with low coefficient of friction and abrasion resistance.	Transparent	5.0 (0.13)	UHMW-PE	3.0 (0.08)	Acrylic	_
(UHMW-PE) – Slick Surface	<mark>5430</mark>	Transparent UHMW-PE film tape with high-tack acrylic adhesive.	Transparent	7.0 (0.18)	UHMW-PE	5.0 (0.13)	Rubber	_
	9325	Thin version of 5430.	Transparent	5.0 (0.13)	UHMW-PE	3.0 (0.08)	Rubber	_

🔂 Go-To Product

470 471 471 471 471 471 471 472 477 764 764 764 764 764 764 764				Total	Back	ing		
	Product	Typical Performance Characteristics/ Application Ideas	Color	Caliper mils (mm)	Material	Caliper mils (mm)	Adhesive Type	Specs
	470	Conformable and abrasion resistant for masking various surfaces during electroplating and anodizing.	Tan	7.1 (0.18)	Vinyl	6.3 (0.16)	Rubber	_
	471 / 4712	Vinyl plastic tape ideal for color-coding, abrasion protection, decoration, sealing, patching, splicing, wrapping, and general purpose. Available in 7 colors and transparent. 4712 is a linered version of 471 for die-cutting applications.	Yellow, White, Red, Black, Green, Orange, Blue, Transparent	5.2 (0.13)	Vinyl	4.1 (0.10)	Rubber	MIL-STD 2041D (SH)
	471+	Superior conformability, sharp paint lines, clean removal.	Indigo	5.3 (0.13)	Vinyl	4.1 (0.10)	Rubber	_
Vinyl	472	Abrasion resistant, high temperature resistant.	Black	10 (0.25)	Vinyl	9.0 (0.23)	Rubber	_
Vinyl 76	477	Abrasion resistant.	Transparent	7.2 (0.18)	Vinyl	6.0 (0.15)	Rubber	
(alphabetical order) P 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 5	764	A general purpose vinyl tape for use in non-critical applications such as color-coding, bundling and safety marking.	Yellow, Red, White, Black, Blue, Green, Orange, Gray, Purple, Brown, Transparent	5.0 (0.13)	Vinyl	4.0 (0.10)	Rubber	_
	766	A general purpose hazard marking vinyl tape for use in non-critical applications.	Black & Yellow Stripes	5.0 (0.13)	Vinyl	4.0 (0.10)	Rubber	_
	767	A general purpose hazard marking vinyl tape for use in non-critical applications.	Red & White Stripes	5.0 (0.13)	Vinyl	4.0 (0.10)	Rubber	_
	971	Designed to withstand scuffing from pallets and heavy equipment found in high traffic areas. Its unique adhesive provides a strong bond to the floor yet promotes one piece clean removal. Ideal for 5S lean manufacturing initiatives.	Yellow, White, Red, Blue, Orange, Green	17 (0.43)	15 (0.38)	Rubber	_	
	4735	Highly conformable, high temperature vinyl fine line tape for fascia panels, two-tone and other multiple color applications where critical paint break lines are required.	Orange	5.4 (0.14)	Vinyl	_	Rubber	_
	4737S	Highly visible backing version of 4737T.	Solid Blue	5.4 (0.14)	Vinyl	_	Rubber	-
47	4737т	Conformable, high temperature vinyl fine line tape for fascia panels, two-tone and other multiple color applications where critical paint break lines are required.	Translucent Blue	5.4 (0.14)	Vinyl	_	Rubber	_
	4737TL	Linered version of 4737T.	Blue	5.4 (0.14)	Vinyl		Rubber	
	5700	Critical applications. Adhesive side printing. For lane and safety marking.	Black & White Stripes	5.5 (0.14)	Vinyl	4.2 (0.11)	Rubber	_
4	5702	Critical applications. Adhesive side printing. For lane and safety marking.	Black & Yellow Stripes	5.5 (0.14)	Vinyl	4.2 (0.11)	Rubber	_

🔂 Go-To Product

21: 610 692 833 855 855 744 700 700 800				Total	Back	ing		
(alphabetical order)	Product	Typical Performance Characteristics/ Application Ideas	Color	Caliper mils (mm)	Material	Caliper mils (mm)	Adhesive Type	Specs
	215	Medium temperature. Fine line masking tape. Excellent conformability.	Blue	4.8 (0.12)	Copolymer Plastic Film	_	Rubber	_
	616	Lithographers tape.	Ruby Red	2.4 (0.06)	UPVC	1.6 (0.04)	Rubber	-
	695	Polyethylene film with a rubber-strip coated along edges of tape only and tack-free center. Riveters tape.	Yellow	3.0 (0.08)	Polyethylene	2.0 (0.05)	Acrylic*	_
	838	Weather-resistant film.	White	3.4 (0.09)	PVF	2.1 (0.05)	Acrylic	SAE-AMS- T-22085, Type IV
	855	Composite bonding tape.	White	3.6 (0.09)	Nylon	2.0 (0.05)	Rubber	-
	8555	Thicker version of 855, composite bonding tape.	White	7.0 (0.18)	Nylon	5.0 (0.13)	Rubber	_
	Product Appli 215 Mediu Excellance 616 Lithog 695 Polyet edges 838 Weath 855 Comp 8555 Thicke 5401 High of protect 7070UV Durab protect 8067 Windot	High coefficient of friction for traction.	Tan	9.3 (0.24)	Fiberglass Reinforced Silicone	8.0 (0.20)	Silicone	_
	5461	High friction roller tape.	White	9.1 (0.23)	Silicone Rubber	7.8 (0.19)	Rubber	_
	7070UV	Durable, abrasion resistant, UV resistance surface protection. Excellent aerospace tape.	Clear	8.0 (0.2)	Polyurethane	6.5 (0.17)	Acrylic	_
	7071UV	Durable, abrasion resistant, UV resistance surface protection. Excellent aerospace tape.	Clear	14 (0.36)	Polyurethane	12.0 (0.31)	Acrylic	_
	8067	Window and door flashing tape.	Tan	10.0 (0.25)	Multilayer Elastomeric Film	5.0 (0.13)	Acrylic	ICC AC 148, AAMA 711
	8777	Air and water tight sealing tape.	Tan	10.0 (0.25)	Multilayer Elastomeric Film	5.0 (0.13)	Acrylic	

*Strip coated along edges of tape only.

3M[™] Single Coated Foam Tapes

Urethane4104*Natural WhiteFi4108Natural WhiteFi4108Natural WhiteFi4116Natural Whitere4314Charcoal GraySe4317*Charcoal GrayGray4318Charcoal GraydaVinyl Foam Tapes4504*Black4508*BlackVi4516*BlackCharcoal Gray			Approximate	Density	Tensile	Compression		Tempe Toler		
	ber Color Do thane white Fin Natural fo White ga Natural re White re	Description	Adhesive	Thickness in. (mm)	lbs./cu. ft. (kg/cu m)	Strength psi (kPa)	Deflection 25% psi (kPa)	Compression Set % Loss	Short- Term	Long- Term
Urethan	e	-			(kg/cu m) psi (kPa 12 (192) 115 (795 16 (256) 130 (895					
4104*		Firm, rigid, open cell urethane	350 Acrylic	0.250 (6)	12 (192)	115 (795)	Deflection 25% psi (kPa) 5) 4 (27.6) 5) 6 (82.8) 5) 12 (82.8)	8	350°F (176°C)	200°F (93°C)
4108		foam for cushioning. Allows air or gas vapors to pass through. Not	350 Acrylic	0.125 (3)	16 (256)	130 (895)	Deflection 25% psi (kPa) 4 (27.6) 6 (82.8) 12 (82.8)	8	350°F (176°C)	200°F (93°C)
4116		recommended for outdoor use.	350 Acrylic	0.062 (1.5)	18 (288)	115 (795)	12 (82.8)	12	350°F (176°C)	200°F (93°C)
4314		Soft conformable, low density open-cell urethane foam can help	430 Acrylic	0.250 (6)	2 (32)	25 (170)	0.3 (2.1)	5	250°F (121°C)	150°F (66°C)
4317*		seal out air, dust and light when compressed 50%. Used to help	430 Acrylic	0.375 (9.5)	2 (32)	25 (170)	0.3 (2.1)	5	250°F (121°C)	150°F (66°C)
4318		damp sound and absorb vibration in electronics.	430 Acrylic	0.125 (3)	2 (32)	25 (170)	0.3 (2.1)	5	250°F (121°C)	150°F (66°C)
Vinyl Fo	am Tapes									
4504*	Black		430 Acrylic	0.250 (6)	20 (320)	90 (620)	4 (27.6)	15	250°F (121°C)	150°F (66°C)
4508*	Black	Durable, flexible, closed cell	430 Acrylic	0.125 (3)	20 (320)	100 (690)	4 (27.6)	15	250°F (121°C)	150°F (66°C)
4516*	Black	compressed 50%. Used to help damp sound and absorb vibration n electronics. Durable, flexible, closed cell vinyl foams with excellent aging characteristics. Weather resistant. Can help to seal out dust, light and moisture when placed under 30% compression. Liner over	430 Acrylic	0.062 (1.5)	25 (400)	130 (895)	4 (27.6)	15	250°F (121°C)	150°F (66°C)
4714*	Black	n electronics.	430 Acrylic	0.250 (6)	14 (225)	75 (515)	2 (13.8)	15	250°F (121°C)	150°F (66°C)
4718*	Black		430 Acrylic	0.125 (3)	20 (320)	100 (690)	4 (27.6)	15	250°F (121°C)	150°F (66°C)
4726*	Black					3 (20.7)	15	250°F (121°C)	150°F (66°C)	

*Meets requirements of UL 94HBF.

3M[™] Single Coated Foil/Foam Sheets

Product Master	Absorbs and dissipates vibration and reduces noise	Sheets Per Case	Sheet Size (in.)
4014 Absorbs and dissipates vibration and reduces noise in metal and plastic panels. Sheets make for excellent 250 mil open cell polyurethane foam with durable aluminum backing to resist aging and moisture. 50 61		50	6 × 48
	12 × 48		
	18 × 48		

3M[™] Extreme Sealing Tapes

			_	Tensile	90° Pe	el Adhesio	n Streng	th' lbs./i	in. (N/cr	n)	
Product	Color	Backing/Adhesive	Tape Thickness mils (mm)	Strength Ibs./in. (N/cm)	Aluminum	Stainless Steel	Glass	Truck Paint	PVC	ABS	Application Ideas
4411G	Grey	Ionomer Film/Pressure Sensitive Acrylic	40 (1)	13 (23)	15 (26)	16 (28)	15 (26)	15 (26)	15 (26)	16 (28)	Seals RV trailers and roofs. Seals metal enclosures and awnings.
4411N	Neutral/ Translucent	Ionomer Film/Pressure Sensitive Acrylic	40 (1)	13 (23)	15 (26)	15 (26)	15 (26)	14 (25)	16 (28)	16 (28)	Seals trailer home roofs and metal storage buildings. Seals vent
<mark>4411B</mark>	Black	Ionomer Film/Pressure Sensitive Acrylic	40 (1)	13 (23)	<mark>19 (33)</mark>	17 (30)	19 (33)	17 (30)	19 (33)	18 (32)	stacks and windows. Seals gutters and downspouts. Seals skylights.
4412N	Neutral/ Translucent	Ionomer Film/Pressure Sensitive Acrylic	80 (2)	13 (23)	18 (32)	18 (32)	19 (33)	19 (33)	19 (33)	19 (33)	Seals outdoor signs/displays. Leak patching and repairs.

⁺Adhesion promoters were used on peel Adhesion test substrates.

3M[™] Splicing Tapes

					Lin	er²				Adh	esion			Temp.	Range
Adhesive Family¹	Product	Description/Application Ideas	Tape Cal. (mils)	Carrier	Туре	Caliper (mils)	Master Size	Specs	Metal	HSE Plastic	LSE Plastic	Foam	Chem. Resist.	Low (°F)	High (°F)
	9737	Clear, thin PET carrier. Aggressive and versatile splicing tape.	3.5	PET	55# DK White	3.5	54" x 180 yd	_	5	5	2	5	7	-10	300
	9737R	Red, thin PET carrier. Aggressive and versatile splicing tape.	3.5	PET	55# DK White	3.5	54" x 180 yd	_	5	5	2	5	7	-10	300
900	9738	Clear, non-woven tissue carrier. Aggressive and versatile splicing tape.	4.3	Non- Woven Tissue	55# DK White	4.3	54" x 180 yd	_	5	5	2	5	7	-10	300
Miscellaneous	9738R	Red, non-woven tissue carrier. Aggressive and versatile splicing tape.	4.3	Non- Woven Tissue	55# DK White	4.3	54" x 180 yd	_	5	5	2	5	7	-10	300
	9740	Clear, high peel, tack and shear strength. Performance grade splicing tape for corrugators.	3.5	PET	55# DK	3.5	54" x 180 yd	_	6	6	2	3	6	10	425
	9741	Clear, thick, super aggressive tape. Adheres to a wide variety of substrates for splicing applications.	6.5	PET	55# Glassine	6.5	54" x 180 yd	_	7	7	3	7	5	-40	200

3M[™] Polyurethane Protective Tapes (PPT) — Long-Term Protection

Nominal Results

Product	Tape Structure (Backing/Adhesive)	Color	Total Thickness mils (mm)	Adhesion to Steel oz./in. Width	Tensile Strength Ibs./in. (N/100 mm)		Maximum Service Temp °F (°C)	Comments
Based on A	ASTM Test Method:		D-3652	D-3330	D-3759			
Indoor Ty	уре							
8547	Polyurethane/Acrylic	Transparent	13 (0.33)	14 (15)	75 (1313)	500	275 (135)	Flame resistant/low tack(passes NFPA 701).
8547- 1	Polyurethane/Acrylic	Transparent	13 (0.33)	14 (15)	75 (1313)	500	275 (135)	Flame resistant/low tack (passes NFPA 701). Tape is easily removed from surface without leaving residue.

1. More information on pg. 11.

3M[™] Repulpable Tapes

To achieve true quality, a tape must meet all your needs. Outstanding strength is not enough. The tape must be easy to use, easy to choose, readily available and fully repulpable. We've built our reputation as an industry leader by being responsive to the increasingly complex needs of paper producers. Today, our customer base consists of clients who demand no less of their product than we demand of ours.

			Таре	Tape S	tructure		Liner	Heat	
Product	Color	Comments	Thickness mils (mm)	Backing/ Carrier	Adhesive	Turne	Thickness mils (mm)	Resistance *°F (°C)	FDA Complian
	ent Double C			Carrier	Autiesive	Туре		F(C)	Complian
405	Lt. Green	Excellent for raw and starch-treated papers.	3.0 (0.08)	Tissue	Repulpable	UPVC	1.7 (0.04)	400 (200)	_
900	Blue	Recommended for light weight coated papers.	2.5 (0.06)	Tissue	Repulpable	Paper	3.2 (0.08)	400 (200)	Yes
900B	Blue	Recommended for super calendared papers.	2.5 (0.06)	Tissue	Repulpable	Paper	3.2 (0.08)	400 (200)	Yes
	ent Single Co		12.0 (0.00)	1100000	Tropulpablo	t apoi	0.2 (0.00)	100 (200)	1.00
901	Lt. Green	Excellent for raw and starch-treated papers.	4.0 (0.10)	Paper	Repulpable	UPVC	1.7 (0.04)	400 (200)	_
910	Blue	Recommended for coated and uncoated papers and paperboard.	4.0 (0.10)	Paper	Repulpable	-	None	400 (200)	Yes
914	Blue	Recommended for high speeds, digital business forms, perforated splicing tape.	4.0 (0.10)	Paper	Repulpable	_	None	400 (200)	Yes
9103	Blue	Printable, coatable backing.	4.5 (0.11)	Paper	Repulpable	Paper	2.9 (0.07)	400 (200)	Yes
9114	Blue	The easiest way to make a butt splice. Printable.	4.5 (0.11)	Paper	Repulpable	Paper	2.9 (0.07)	400 (200)	Yes
9960	Blue	Thinnest butt splicing tape for light weight uncoated and coated and supercalandered papers.	2.2 (0.06)	Paper	Repulpable	Paper	2.9 (0.07)	350 (180)	Yes
9969	Blue/White	Very thin butt splicing/cover tape for uncoated, newsprint and most coated papers.	2.2 (0.06)	Paper	Repulpable	Paper	2.9 (0.07)	350 (180)	Yes
Adhesiv	e Transfer Ta	ре							
R3037	Blue	Thinnest, fiber reinforced adhesive transfer tape.	2.0 (0.05)	None	Repulpable	Paper	3.3 (0.08)	250 (120)	Yes
Tempora	ary Double C	oated							
906	Blue/White	Flying splice at the Off-Machine Coater (OMC).	3.0 (0.08)	Tissue	Repulpable	Paper	3.2 (0.08)	400 (200)	Yes
9038	Blue/White	General purpose plus flying splice for the commercial printers, and corrugators.	3.5 (0.09)	Tissue	Repulpable	Paper	3.2 (0.08)	350 (180)	
9069	Blue	Excellent for newsprint or directory stock.	3.5 (0.09)	Tissue	Repulpable	Paper	3.2 (0.08)	400 (200)	
9977	Blue	High strength tissue for flying splices where extra strength is needed.	4.0 (0.10)	Tissue	Repulpable	Paper	3.2 (0.08)	400 (200)	_
3227	Blue/White	General purpose temporary splicing.	3.5 (0.09)	Tissue	Repulpable	Paper	3.2 (0.08)	400 (200)	Yes
3257	White	Thin tissue, very high-tack.	4.1 (0.11)	Tissue	Repulpable	Paper	3.2 (0.08)	400 (200)	Yes
23287	White	Heavy tissue, very high-tack.	5.5 (0.14)	Tissue	Repulpable	Paper	3.2 (0.08)	400 (200)	Yes
	ary Single Co	pated							
3127	Blue/White/	General purpose, excellent holding power.	4.5 (0.11)	Paper	Repulpable		None	400 (200)	Yes
3187	Kraft	General purpose, strong repulpable backing.	7.5 (0.19)	Paper	Repulpable		None	400 (200)	Yes
83177	Blue/White/ Red	Heavy duty, extensible repulpable backing.	7.0 (0.16)	Paper	Repulpable	_	None	400 (200)	Yes
Splittabl	e Flying Spli		1		1		1	1	
R3345	Blue	Thin SFS tape for flying splices through supercalendering operations, and permanent butt splices for light weight coated papers.	4.8 (0.12)	Paper	Repulpable	Paper	2.9 (0.07)	400 (200)	
23375	Blue	Strong SFS tape for flying splices on heavy papers and high tension web processing through supercalendering operations.	6.5 (0.16)	Paper	Repulpable	Paper	2.9 (0.07)	400 (200)	_
R3379	Blue	Repulpable SFS tape used for high speed splicing conditions when high-tack is required and to compensate for roll profile issues.	7.5 (0.19)	Paper	Repulpable	Paper	2.9 (0.07)	400 (200)	
R5348	Blue	Use with light- to medium-weight papers running through medium-temperature ovens.	5.0 (0.11)	Paper	Repulpable	Paper	2.9 (0.07)	350 (180)	
7359	Blue	Use with light- to heavy-weight papers running at high speeds and high temperatures.	6.6 (0.17)	Paper	Repulpable	Paper	2.9 (0.07)	400 (200)	_
7369	Blue	Use with light- to heavy-weight paper on wide web rolls to help compensate for roll profile variations running at high speeds and high temperatures.	7.4 (0.19)	Paper	Repulpable	Paper	2.9 (0.07)	400 (200)	
9990N	Blue	Splittable flying splice (SFS) system with metalized layer for auto-sensing splice detection applications.	5.5 (0.14)	Aluminized Paper**	Repulpable	Paper	2.2 (.05)	350 (180)	
29993	Blue	All in one tabbing and splicing tape for heatset printing applications.	5.0 (0.11)	Paper	Repulpable	Paper	2.9 (0.07)	400 (200)	
R9996	Blue	Thinnest SFS tape for splicing applications in papermills and paper converting coating operations.	4.8 (0.12)	Paper	Repulpable	Paper	2.9 (0.07)	400 (200)	
89999	Blue	Repulpable SFS tape for heavyweight papers in manual and automatic splicing equipment, with moderate speed.	6.7 (0.17)	Paper	Repulpable	Paper	2.9 (0.07)	400 (200)	_

⁺All components of the adhesive and backing meet the requirements of indirect food additive regulations as described under 21 CFR 176.170 (Components of paper and paperboard in contact with aqueous and fatty food) and 21 CFR 176.180 (Components of paper and paperboard in contact with dry foods).

*As tested in laboratory. Results may vary depending on machine and web tensions, nature of paper surface, application pressure, etc. which are outside of 3M's control. **Non-repulpable, screenable aluminized sensor strip.

Reclosable Fasteners Hold tight. Remove easily.

IS

The lightweight alternative to metal fasteners offering easy opening and closing. Reclosable Fasteners join dissimilar materials without corrosion or contamination. Plus, they offer vibration absorption, durability and security.

Learn more at: 3M.com/Fasteners

3M[™] Dual Lock[™] Reclosable Fasteners Fastening power and flexibility.

Fastening power and flexibility.

You have options. Check out the large 3M portfolio of solutions that offer these solutions:

- Clean, smooth "behind the scenes" hold for aesthetic improvements
- Lightweight alternatives to metal fasteners
- Simple to apply, use and maintain
- Variety of strengths to fit your project needs
- Flexibility to fit your designs, even the most constricted areas
- Ability to join dissimilar materials without corrosion and contamination
- Vibration absorption and security no loosening or failing attachments
- Durable for repeated opening and closings hundreds of reattachments



Strength Increase

3M[™] Dual Lock[™] Reclosable Fastener **Type 400**

3M[™] Dual Lock[™] Reclosable Fastener **Type 250**

3M[™] Dual Lock[™] Reclosable Fastener **Type 170**

3M[™] Dual Lock[™] Reclosable Fastener **Low Profile**

3M[™] Hook and Loop Reclosable Fastener **Standard Thickness**

3M[™] Hook and Loop Reclosable Fastener **Low Profile**

Holding strength increases as you move up from 3M[™] Hook and Loop through 3M[™] Dual Lock[™] Reclosable Fasteners.



- Up to 5,000 closures for our standard Hook and Loop
- Low profile options available, as much as 75% thinner than standard product

Type 400

Туре 250 Ту

Type 170

Low Profile

3M Converter Markets | 3M.com/converter

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3M[™] Dual Lock[™] Reclosable Fasteners

Holding power to replace screws, bolts and rivets.

Durable enough to last through repeated opening and closing. Unique, interlocking mushroom-shaped heads snap shut and stay locked.

- \bullet Durable up to 1,000 openings and closings before losing 50% of original tensile strength
- Helps reduce vibration
- Temperature, moisture and UV resistant
- Strong, pressure-sensitive adhesive bonds on contact
- Mushroom-shaped heads have 5X the tensile strength of hook-and-loop products
- Best Suggested Product
 Performance Dependent on Selected Attachment Method
- Primer Recommended

					ିତ		Su	bstra	tes		Use			N	larke	ts			
Product	Stem Density (per sq./in.)	Adhesive	Color	3M Liner	Engaged Thickness	Temperature Resistance °F (°C)	Metals (Al & SS)	Glass	Plastics (Acrylic, PC, ABS)	Powder Coated Paints	Low Surface Energy (PP,PE)	Indoor/Outdoor	Aerospace & Rail	Appliance & Electronics	Design & Construction	Furniture & Upholstery	General Industrial	Marine & Specialty Vehicle	POP, Display & Signage
SJ3540	250	Rubber	Black	White,															
SJ3541	400	Rubber	Black	5 mil (0.13mm)	0.23"	120 (49)						Indoor							
SJ3542	170	Rubber	Black	Polyolefin	(5.7mm)	(49)													1
SJ3560	250	Clear Acrylic	Clear	Clear,															
SJ3561	400	Clear Acrylic	Clear	3 mil (0.08mm)	0.23" (5.7mm)	200 (93)						Indoor/ Outdoor							
SJ3562	170	Clear Acrylic	Clear	Polyolefin		(93)													
SJ3550CF 😭	250	Clear Acrylic	Black	Clear															
SJ3551CF	400	Clear Acrylic	Black	Clear, 3 mil (0.08mm)	0.23"	200 (93)						Indoor/							
SJ3552CF	170	Clear Acrylic	Black	Polyolefin	(5.7mm)	(93)						Outdoor							l l
SJ3870	250	Modified Acrylic	Black	Clear, 4.5 mil															
SJ3871	400	Modified Acrylic	Black	(0.11mm)	0.24"	140						Indoor/							
SJ3872	170	Modified Acrylic	Black	Polyolefin	(6.1mm)	(60)						Outdoor							
SJ3782	250	Low Surface Energy Acrylic	Black	Brown, 83# Polykraft	0.16" (4.1mm)	120 (49)						Indoor/ Outdoor							
SJ3440	250	None	Black																
SJ3441	400	None	Black	No Liner	0.15" (3.86mm)	220 (104)						Indoor/ Outdoor			•		•	•	
SJ3442	170	None	Black		(0.001111)														
SJ3443	400	Non-woven backing with no adhesive	Black	No Liner	0.28" (7.1mm)	220 (104)	•	•	•	•	•	Indoor/ Outdoor		•	•				•
SJ3444	170	Non-woven backing with no adhesive	Black	No Liner	0.28" (7.1mm)	220 (104)	•	•	•	•	•	Indoor/ Outdoor		•	•	•	•	•	•
SJ3445	250	Non-woven backing with no adhesive	Black	No Liner	0.28" (7.1mm)	220 (104)	•	•	•	•	•	Indoor/ Outdoor		•	•	•	•	•	•
SJ3460	250	None	Clear	No Liner	0.15" (3.86mm)	220 (104)	•	•	•	•	•	Indoor/ Outdoor		•	•	•	•	•	•
SJ3463	400	Piece Part Circle ⁺	Black	No Liner	0.20 in.* (5.1mm)	220 (104)						Indoor/ Outdoor							
SJ3481	400	Rigid Strip ⁺	Black	No Liner	0.20 in.* (5.1mm)	220 (104)	•	•	•	•	•	Indoor/ Outdoor		•	•	•	•	•	•
SJ4570 🛟	Low Profile/ Thin	Low Surface Energy Acrylic	Clear	Brown, 83# Polykraft	0.098" (2.489mm)	158 (70)						Indoor/ Outdoor							
SJ4575	Low Profile/ Thin	Low Surface Energy Acrylic	Black	Brown, 83# Polykraft	0.098" (2.489mm)	158 (70)						Indoor/ Outdoor							
SJ4580	Low Profile/ Thin	Clear Acrylic	Clear	Red, 4.5 mil (0.11mm) Polyolefin	0.12" (3.0mm)	200 (93)						Indoor/ Outdoor				•	•		

*Single thickness; not engaged the adhesive

😡 Go-To Product

3M[™] Hook and Loop Reclosable Fasteners

Hooks on one side, loops on the other for secure, repeated closures.

- Reliable PSA hold on contact with a variety of materials
- Available in black, white and beige
- Low profile options, as much as 75% thinner than standard product
- Up to 5,000 closures for standard Hook and Loop



							ត		Sub	ostra	tes		Use		M	arke	ts	
Product	Туре	Adhesive	Closure Life	Product Material	Liner Description	Engaged Thickness	Temperature Resistance °F (°C)	Metals (AI & SS)	Glass	Plastics(Acrylic, PC, ABS)	Powder Coated Paints	Low Surface Energy (PP, PE)	Indoor/Outdoor	Aerospace & Rail	Furniture & Upholstery	General Industrial	Marine & Specialty Vehicle	
High Perfo	ormance																	
SJ3526N	Hook	High Performance Rubber	5,000	Nylon	White, 3 mil (0.08mm) Polyethylene film	0.14 in. (3.6mm)	120 (49)						Indoor					
SJ3527N	Loop	High Performance Rubber	5,000	Nylon	3M Red Print	0.14 in. (3.6mm)	120 (49)						Indoor					
SJ3572	Hook	High Performance Acrylic	5,000	Nylon	Clear, 4 mil (0.10mm) Polypropylene film	0.14 in. (3.6mm)	200 (93)						Indoor/ Outdoor					
SJ3571	Loop	High Performance Acrylic	5,000	Nylon	Embossed 3M logo	0.14 in. (3.6mm)	200 (93)						Indoor/ Outdoor					
General P	urpose																	
SJ3522	Hook	Plasticizer Resistant Acrylic	5,000	Nylon	Clear, 3.5 mil (0.08mm) Polyolefin film	0.14 in. (3.6mm)	158 (70)						Indoor/ Outdoor					
SJ3523	Loop	Plasticizer Resistant Acrylic	5,000	Nylon	No print	0.14 in. (3.6mm)	158 (70)						Indoor/ Outdoor					
SJ3530	Hook	High-tack Rubber	5,000	Nylon	Yellow, 3 mil (mm) Polyethylene film	0.14 in. (3.6mm)	90 (32)						Indoor					
SJ3531	Loop	High-tack Rubber	5,000	Nylon	No Print	0.14 in. (3.6mm)	90 (32)						Indoor					
Without A	dhesive	1		1	1													
SJ3401	Loop	None	5,000	Nylon	None	0.12 in. (3.0mm)	200 (93)	•	•	•	•	•	Indoor/ Outdoor		•	•		•
SJ3402	Hook	None	5,000	Nylon	None	0.12 in. (3.0mm)	200 (93)	•	•	•	•	•	Indoor/ Outdoor		•	•		•
Low Profil	le/Thin																	
SJ3506	Hook	Acrylic	25	Polypropylene	Brown #83 Polykraft	0.034 in. (0.84mm)	158 (70)						Indoor/ Outdoor					
SJ3507	Loop	Acrylic	25	Polyester	Green Print	0.034 in. (0.84mm)	158 (70)						Indoor/ Outdoor					
SJ3001	Back-to-back hook and loop	None	100	Polyester/ Polypropylene	None	0.101 in (2.6mm)	200 (93)						Indoor/ Outdoor					
Flame Res	sistant																	
SJ3519FR	Hook	Flame Resistant	5,000	FR Nylon	White, 3 mil (0.08mm) Polyethylene film	0.14 in. (3.6mm)	158 (70)						Indoor					
SJ3518FR	Loop	Flame Resistant	5,000	FR Nylon	3M Red Print	0.14 in. (3.6mm)	158 (70)						Indoor					
SJ3419FR	Hook	None	5,000	FR Nylon	None	0.12 in. (3.0mm)	200 (93)	•	•	•	•	•	Indoor/ Outdoor	•	•	•		
SJ3418FR	Loop	None	5,000	FR Nylon	None	0.12 in. (3.0mm)	200 (93)		•	•	•	•	Indoor/ Outdoor	•	•	•		

- Performance Dependent on Selected Attachment Method
- Back-to-Back Fastener Which Can Wrap Around Any Type of Surface or Substrate

Specialty Products

Protective products for life's mishaps.

Life is full of risks, but you can offer your customers protection against some of them. 3M specialty products feature pressure-sensitive adhesives for long-lasting and fast-bonding protection where and when you need it.

3M[™] Premium Polyurethane Foam Tapes

			Approximate		Density	Tensile	Tensile	Tear Strength	Compression Deflection		erature ance
Product	Color	Adhesive	Thickness in. (mm)	Roll Size	lbs./cu. ft. (kg/cu m)	Strength (psi (kPa)	Elongation % Min.	Min. pli (kN/m)	@23°C, psi (kPa)	Short- Term	Long- Term
Medium	Medium Density Series										
12026	Black	With* or without**	1/16 (1.6)	54" x 300 ft.	15 (239)	50 (345)	90	4.0 (0.7)	305-6.5 (24-45)	250°F (121°C)	150°F (66°C)
12032	Black	With* or without**	3/32 (2.4)	54" x 225 ft.	15 (239)	50 (345)	90	4.0 (0.7)	305-6.5 (24-45)	250°F (121°C)	150°F (66°C)
12028	Black	With* or without**	1/8 (3.2)	54" x 160 ft.	15 (239)	50 (345)	90	4.0 (0.7)	305-6.5 (24-45)	250°F (121°C)	150°F (66°C)
12036	Black	With* or without**	3/16 (4.8)	54" x 100 ft.	15 (239)	50 (345)	90	4.0 (0.7)	305-6.5 (24-45)	250°F (121°C)	150°F (66°C)
12034	Black	With* or without**	1/4 (6.4)	54" x 80 ft.	15 (239)	50 (345)	90	4.0 (0.7)	305-6.5 (24-45)	250°F (121°C)	150°F (66°C)
12038	Black	With* or without**	3/8 (9.5)	54" x 60 ft.	15 (239)	50 (345)	90	4.0 (0.7)	305-6.5 (24-45)	250°F (121°C)	150°F (66°C)
12030	Black	With* or without**	1/2 (12.7)	54" x 40 ft.	15 (239)	50 (345)	90	4.0 (0.7)	305-6.5 (24-45)	250°F (121°C)	150°F (66°C)
High Der	nsity Series	1									
12046	Black	With* or without**	1/16 (1.6)	54" x 300 ft.	20 (320)	75 (517)	100	7.0 (1.2)	8–12 (55–83)	250°F (121°C)	150°F (66°C)
12062	Black	With* or without**	3/32 (2.4)	54" x 225 ft.	20 (320)	75 (517)	100	7.0 (1.2)	8–12 (55–83)	250°F (121°C)	150°F (66°C)
12048	Black	With* or without**	1/8 (3.2)	54" x 160 ft.	20 (320)	75 (517)	100	7.0 (1.2)	8–12 (55–83)	250°F (121°C)	150°F (66°C)
12056	Black	With* or without**	3/16 (4.8)	54" x 100 ft.	20 (320)	75 (517)	100	7.0 (1.2)	8–12 (55–83)	250°F (121°C)	150°F (66°C)
12054	Black	With* or without**	1/4 (6.4)	54" x 80 ft.	20 (320)	75 (517)	100	7.0 (1.2)	8–12 (55–83)	250°F (121°C)	150°F (66°C)
12049	Black	With* or without**	3/8 (9.5)	54" x 60 ft.	20 (320)	75 (517)	100	7.0 (1.2)	8–12 (55–83)	250°F (121°C)	150°F (66°C)
12050	Black	With* or without**	1/2 (12.7)	54" x 40 ft.	20 (320)	75 (517)	100	7.0 (1.2)	8–12 (55–83)	250°F (121°C)	150°F (66°C)

*Adhesive Selection. **Non Adhesive foams are UL 94HBF, File E61941 Recognized Components.

Construction Availability

Polymer	Thickness	Liner	Typical Performance Characteristics					
Standard	Standard Viscoelastic Damping Polymer							
110	2 and 5 mil	Paper	Good damping performance at higher temperature: 40–105°C (104–221°F). Heat and pressure needed for bonding.					
112	1, 2 and 5 mil	Paper	Good damping performance at 0–65°C (32–142°F). Pressure only for adequate bonding at room temperature (21°C/70°F) for many applications.					
130	2 and 5 mil	Polyester	Good damping performance at moderate temperature range of 20–90°C (68–194°F). Pressure only for adequate bonding at room temperature (21°C/70°F) for some applications.					
Ultra-Pur	Ultra-Pure Viscoelastic Damping Polymer							
242	1 and 2 mil	Polyester	Good damping performance at 0–65°C (32–142°F). Low outgassing by GC/MS (Modified ASTM 4526). Low ionics.					

Flexographic Mounting Systems Where science meets craft.

The 3M flexographic portfolio melds the best worlds of 3M: science and craft. Innovative 3M flexo solutions deliver optimal, consistent, and productive quality. These flexo products ensure that a craftsperson's print room is a space where science and craft work as one.

Learn more at: 3M.com/Flexo

Outstanding quality from every angle. Dependable, consistent, plus faster mounting and demounting.



Performance you can trust.

Our tapes give operators outstanding quality from every angle with the 3M[™] Print Quality Advantage.





Optimal

With the industry's largest range of tape densities.

- Expanded gamut printing
- Faster presses
- Maximize your investment in new plate and screening technologies
- Flexible today and into the future
- Optimizing every run
- Consistent, predictable





Consistent

With one of the industry's tightest caliper tolerances, delivering predictable print results.

- Dependable performance day after day
- Consistent, tight tape caliper
- Bubble-free mounting
- Dependable adhesive performance





Productive

With industry-leading productivityenhancing adhesives.

- Protect your resources and assets
- Simplify plate mounting
- Keep your press running faster
- Ease of use
- Faster mounting and demounting

3M[™] Flexographic Mounting Systems

		ЗМ™ (Combination Printing	Tapes			3M [™] Process Printing Tapes
18 Series: Firm	17 Series: Medium Firm	15 Series: Medium	10 Series: Standard	13 Series: Medium Soft	19 Series: Light Medium	12 Series: Light	11 Series: Process
			10% Hi	ghlight			
			40% M	lidtone			
******	~~~~~						
			Rev	erse			
9	8	8	9	8	8	8	8
			100%	Solid			
Quality results when plate contains mostly solids in a combination of solid and halftone images.	Quality results when plate contains slightly more solids in a combination of solid and halftone images.	Quality results for high speed printing with fine type reverses and expanded color gamut.	Quality results when solid and halftone areas are equally important.	Quality results for high speed printing of combination work when halftone areas exceed solid.	Soft support improves tone reproduction when process and halftone images predominate.	Low density maximizes dot reproduction for high quality process work and screen printing.	Low density maximizes dot reproduction for high quality process work and screen printing.
E1815, E1815H, 1815M E1820, E1820H, 1820M E1840H, E1860H	E1715, E1715H E1720, E1720H, 1720M	E1515, E1515H E1520, E1520H	E1015, E1015H, 1015, 1015M E1020, E1020H, 1020, 1020M, 1020R E1040, E1040H, 1040 E1060, E1060H, 1060	E1315, E1315H E1320, E1320H	E1915, E1915H, 1915M, E1915S, E1915HS E1920, E1920H, 1920M, E1920S, E1920HS, 1920S,	E1215, E1215H E1220, E1220H	E1115, E1115H, 1115 E1120, E1120H, 1120

E: Air Release Medium Plate Side Adhesion; EH: Air Release High Plate Side Adhesion; S: High Sleeve Side Adhesion for Urethane Sleeves; M: Modified Plate Side Adhesion; DL: Double Liner; R: Rubber Plates; K: High sleeve side adhesion for composite sleeves.

Additional calipers available for specialized applications.

3M[™] Flexographic Mounting Systems (cont.)

Pro	duct	Application Thickness in. (mm)	Manufactured Target Thickness in. (mm)	Description	Plates	Cylinders	Color	Features		
es	3M [™] Flexomoun	t [™] Solid Plate	e Mounting Tape	S						
solia rrinting lapes	411DL	0.015 (0.38)	0.015 (0.38)	Gray double coated tape with a	P/R	SS/S/K	Gray			
	412DL	0.020 (0.51)	0.020 (0.51)	soft rubber adhesive on each side of a vinyl carrier. Available in single	P/R	SS/S/K	Gray	Gray vinyl tapes with high adhesion Helps reduce edge lifting. Helps minimize pin holing on solid work.		
}	447DL	0.010 (0.25)	0.010 (0.25)	and double liner.	P/R	SS/S/K	Gray			
	18 Series 3M [™] C	ushion-Mou	nt [™] Plus Firm Co	mbination Plate Mounting Tapes				1		
	E1815H, E1815	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system	Р	SS/S/K	Blue	Better solid ink density than the		
	E1820H, E1820	0.020 (0.51)	0.022 (0.56)	on each side of a foam carrier, protected by a release liner on one side.	Р	SS/S/K	Blue	standard combination printing tapes. Clean removal from plate		
	E1840H, E1860H	0.040 (1.02) 0.060 (1.52)	0.042 (1.07) 0.062 (1.57)	,	Р	SS/S/K	Blue	and print cylinder.		
	17 Series 3M [™] C	ushion-Mou	nt [™] Plus Medium	Firm Combination Plate Mounting T	apes			1		
	E1715H, E1715	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a foam carrier, protected	Р	SS/S/K	Teal	Quality results when plate contains slightly more solids in a combinatio		
	E1720H, E1720, 1720M	0.020 (0.51)	0.022 (0.56)	by a release liner on one side.	Р	SS/S/K	Teal	of solid and halftone images.		
	15 Series 3M [™] C	ushion-Mou	nt [™] Plus Medium	Combination Plate Mounting Tapes						
	E1515H, E1515	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a foam carrier, protected	Р	SS/S/K	Purple	High quality, medium		
	E1520H, E1520	0.020 (0.51)	0.022 (0.56)	by a release liner on one side.	Р	SS/S/K	Purple	combination print.		
lape	10 Series 3M [™] C	ushion-Mou	nt [™] Plus Standar	d Combination Plate Mounting Tapes	5					
	E1015H, E1015, 1015, 1015M	0.015 (0.38)	0.017 (0.43)	-	P	SS/S/K	White			
	E1020H, E1020, 1020, 1020R	0.020 (0.51)	0.022 (0.56)	Differential acrylate adhesive system on each side of a foam carrier, protected	P/R	SS/S/K	White	Most versatile 3M [™] Cushion-Mount Plus Tapes. Effectively prints most		
	E1040, 1040, E1040H	0.040 (1.02)	0.042 (1.07)	by a release liner on one side.	Р	SS/S/K	White	types of flexographic printing.		
	E1060, 1060, E1060H	0.060 (1.52)	0.062 (1.57)		Р	SS/S/K	White			
	13 Series 3M [™] C									
	E1315H, E1315	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system.	Р	SS/S/K	Yellow	High quality, medium-soft combination print.		
	E1320H, E1320	0.020 (0.51)	0.020 (0.51)	Differential acrylate adhesive system.	Р	SS/S/K	Yellow	High quality, medium-soft combination print.		
		ushion-Mou	nt [™] Plus Light M	edium Combination Plate Mounting	Tapes			1		
	E1915H, E1915, E1915HS, E1915S	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system	Р	SS/S	Pink	Soft support improves tone		
	E1920H, E1920	0.020 (0.51)	0.022 (0.56)	on each side of a foam carrier, protected by a release liner on one side.	Р	SS/S	Pink	reduction when process and halftone images predominate.		
	E1920S, 1920S, E1920HS	0.020 (0.51)	0.022 (0.56)		Р	S/K	Pink			
	12 Series 3M [™] C	ushion-Mou	nt [™] Plus Light Co	mbination Plate Mounting Tapes				1		
	E1215H, E1215	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a foam carrier, protected	P	SS/S	Orange	_		
	E1220H, E1220	0.020 (0.51)	0.022 (0.56)	by a release liner on one side.	Р	SS/S	Orange	-		
	11 Series 3M [™] C	ushion-Mou	nt [™] Plus Process	Plate Mounting Tapes						
	E1115H, E1115, 1115	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system		SS/S	Tan	Better tone reproduction than the standard combination printing		
Process Printing	E1120H, E1120, 1120	0.020 (0.51)	0.022 (0.56)	on each side of a foam carrier, protected by a release liner on one side.	Р	SS/S	Tan	tapes. Clean removal from plate and print cylinder.		

E: Air Release Liner; M: Modified Plate Side Adhesion; DL: Double Liner; S: Urethane Sleeve; K: High sleeve side adhesion for composite sleeves; SS: Stainless Steel Cylinder; R: Rubber Plates; P: Photopolymeric Plates; EH: High Plate Side Adhesion.

E-Series Tapes with 3M[™] Comply[™] Adhesive System

The bubble-free answer.

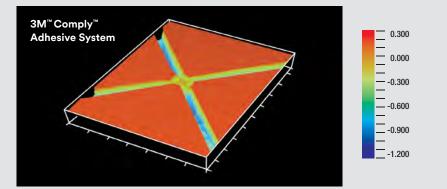
E-Series Tapes were the first plate mounting tapes in the market with patented 3M[™] Comply[™] Adhesive System which virtually eliminates air bubbles with the micro-channels in the adhesive. That means saving the mounter time and eliminating press down time caused by air bubbles.

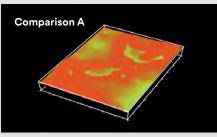
EH-Series Tapes

Tight hold for small cylinders.

3M[™] EH-Series Tapes combine the airrelease of 3M[™] E-Series Tapes with higher plate side adhesion to resist edge lifting on cylinder diameters as small as 2 inches.

Microscopic View of Adhesive Surface Measured with Interferometer





Pebbled Liner

3M[™] Comply[™] Adhesive System Benefits

Stays on with reduced edge-lifting.

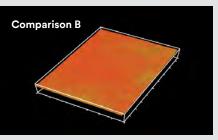
Exclusive 3M plate-side adhesive maintains tight contact between tape and plate to dramatically reduce edge lifting. Saves the prep time, downtime, and labor of sealing plate edges.

Peels off easily to reduce plate damage.

E-series tapes grip tightly but peel off so easily you can virtually eliminate plate back treatment. You're less likely to damage plates, so you can save time, labor and money.

Bubble-free print quality.

Prevent blemishes in screen and process printing, and help assure proper registration.



Flat Liner

3M[™] Thin Tapes

When cushioning is unnecessary, these tapes can mount both rubber and photopolymer plates. Some are also repositionable.

Product	Tape Thickness in. (mm)	Description	Compressible Sleeves		Rotary Letterpress	Make Ready	Features	
415	0.004 (0.10)	Double coated tape with a medium-firm acrylic adhesive on each side of a polyester carrier.					Good adhesion to a wide range of surfaces. Can be used for Cameron Press applications.	
442KW	0.004 (0.10)	Double coated tape with a firm rubber adhesive on each side of a polyester carrier.		-	-		Plate mounting applications requiring a thin tape to bond rubber or photopolymer plates to metal cylinders.	
443	0.005 (0.13)	Double coated tape with a soft rubber adhesive on each side of a polyester carrier.					Mounting applications requiring a thin tape to bond polyester, fiberglass and other surfaces.	
465	0.002 (0.05)	Acrylic adhesive transfer tape.					Small area plate build-up or make-ready. Also used to mount primed rubber plates.	
927	0.002 (0.05)	Acrylic adhesive transfer tape.					Corrugated plate mounting applications	
950	0.005 (0.13)	Acrylic adhesive transfer tape.					where repositionability and removability are not required.	

All tapes listed on this chart have been used successfully on non-compressible sleeves.

Continued on next page.

3M[™] Thin Tapes (cont.)

Product	Tape Thickness Inch (mm)	Description	Compressible Sleeves		Rotary Letterpress	Make Ready	Features
2205	0.005 (0.13)	Double coated film tape with differential acrylic adhesive with a polyester film carrier on a kraft paper liner.	•	-			For the corrugated printing industry to hold flexographic print plates to PVC saddles/ carriers. Removes cleanly.
2205FL	0.005 (0.13)	Double coated film tape with differential acrylic adhesive with a polyester film carrier on a film liner.		-			Adhesives designed specifically for corrugated flexo mounting. Removes cleanly and easy to reposition.
9500PC	0.005 (0.13)	High performance acrylic adhesive on each side of a polyester carrier.	-				Thin tape plate mounting applications requiring higher performance than 442KW Tape.

All tapes listed on this chart have been used successfully on non-compressible sleeves.

3M[™] Flexographic Mounting Aids

Product	Description			
3M™ AP86A	Helps hold the leading and trailing edges of the plate to prevent edge lifting.			
3M [™] Aluminum Foil Tape 425	Seals plate edges against ink and solvent penetration that can cause edge lifting.			
3M [™] Vinyl Tape 471	Seals plate edges against ink and solvent penetration that can cause edge lifting.			
3M [™] Polyester Film Tape 850	Seals plate edges against ink and solvent penetration that can cause edge lifting.			
Scotch® Magic Tape 810	Secures proofing paper to a proofer/mounter with good adhesion but simple removal from the proofing cylinder.			

3M[™] Non-Repulpable Splicing Tapes

		Таре	Carrier			Adhesion	High Temp	Go-To Ap	plication*
Go To Products	Go To Products Description		Thickness mil (mm)	Carrier Type	Color	oz./in. (N/25 mm)	(Short-Term) °F (°C)	Zero Speed	Flying Speed
Based or	ASTM Test Method:	D-3652	D-3652			D-3330			
Adhesiv	ve Transfer Tapes								
465	High-tack. Excellent adhesion to most paper stocks. Flexible to -60°F (-51°C).	2.0 (0.05)	_	No Carrier	Clear	25 (6.8)	250 (121)		
9498	Low temperature splicing.	2.0 (0.05)	—	No Carrier	Clear	20 (6.0)	250 (121)		
9499	High temperature splicing.	2.0 (0.05)	_	No Carrier	Clear	45 (12.5)	350 (177)		
Double	Coated Tapes			•					
415/ 9420	High-tack adhesion to paper and many other surfaces.	4.0 (0.10)	0.5 (0.01)	Polyester	Clear/Red	25 (6.8)	180 (82)		
469	High temperature, high-tack.	5.5 (0.14)	1.0 (0.02)	Tissue	Red	60 (16.7)	350 (177)		
9576	Medium tack for general splicing and roll closing.	4.0 (0.10)	1.0 (0.02)	Polypropylene	Red/Black/ Yellow	30 (13.5)	165 (75)		
9737/ 9737R	Thin PET carrier. Aggressive and versatile tape for many surfaces.	3.5 (0.09)	0.5 (0.01)	Polyester	Clear/Red	60 (16.7)	300 (150)		
9738/ 9738R	Non-woven tissue carrier. Aggressive and versatile tape for many surfaces.	4.3 (0.11)	1.3 (0.03)	Non Woven Tissue	Clear/Red	60 (16.7)	300 (150)		
9740	High temperature with extremely wide range. High peel, tack, and shear properties. Performance grade splicing for corrugators.	3.5 (0.09)	0.5 (0.01)	Polyester	Clear	70 (21.2)	425 (218)		•
9741/ 9741R	Thick tape adheres to a wide variety of substrates. Super aggressive for low surface energy substrates.	6.5 (0.17)	0.5 (0.01)	Polyester	Clear/Red	120 (34.0)	200 (93)		
Splittab	le Flying Splice Tape								
8387	Splice even the most challenging substrates: cast and biaxially oriented polypropylene, polyester, and aluminum foil.	7.0 (0.19) without liner	3.0 (0.09)	Film	Pink/Black	60 (16.7)	175 (79)		

*All tapes in this chart can be considered for zero speed or flying speed splices.

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