

Material Specification Sheet

Material Number: 18440

Description: Double Coated High Strength Acrylic Tape Low Surface Energy (LSE) - Tissue Carrier

Applications: 18440 is double coated version of FFT 18400, designed for those bonding applications requiring high levels of initial tack and excellent adhesion to a wide variety of materials. The tissue carrier offers excellent conformability to curved or irregular surfaces and improved dimensional stability over transfer tapes.

Product Construction:

Property	Thickness	
Adhesive/ Carrier	0.0063" (160 µm)	Acrylic Adhesive on Nonwoven Carrier
Liner	0.0036" (91 µm)	Densified Kraft

Typical Physical Properties:

Property	Material		Test Method	Value	
Adhesion- 180° Peel*	Stainless Steel	Unwind Side Liner Side	PSTC-101	106 oz/in (1156 N/m) 133 oz/in (1453 N/m)	
	ABS	Unwind Side Liner Side		98 oz/in (1068 N/m) 131 oz/in (1436 N/m)	
	PP	Unwind Side Liner Side		102 oz/in (1121 N/m) 128 oz/in (1401 N/m)	
	Talc PP	Unwind Side Liner Side		99 oz/in (1086 N/m) 125 oz/in (1366 N/m)	
	HDPE	Unwind Side Liner Side		88 oz/in (963 N/m) 112 oz/in (1226 N/m)	
	TPO	Unwind Side Liner Side		123 oz/in (1348 N/m) 131 oz/in (1436 N/m)	
	Painted Metal			Unwind Side	82 oz/in (893 N/m)
				Liner Side	83 oz/in (911 N/m)
Loop Tack	Stainless Steel	Unwind Side	PSTC-16	126 oz/in (1383 N/m)	
		Liner Side		139 oz/in (1523 N/m)	
Static Shear	1 in ² , 2.2# load	Unwind Side	PSTC-107	>3000 minutes	
	1 in ² , 2.2# load	Liner Side		>750 minutes	
Service Temperature (max)		Continuous	N/A	200°F (93°C)	
		Intermittent		250°F (121°C)	
Min. Application Temp.			N/A	50°F (10°C)	

*2 mil PET support, 1 minute dwell, 12 in/min

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