



Material Specification Sheet

Material Number: SonusTex MT

Description: Semi-Rigid Porous PET Nonwoven Thermo-Acoustic Insulation

Summary: This polyester construction contains a densified layer on the primary surface attached to a lofted substrate. This material is water-repellant, oil, and fuel resistant. This acoustic material can withstand max continuous temperature of 160°C and max intermittent temperature (30 minutes) of 180°C without significant distortion, delamination or shrinkage.

Product Construction:

	High Density Layer	Lower Density Substrate
Density (kg/m ³)	170 ± 10%	50 ± 10%

Composite Technical Requirements:

Property	Value
Flammability (SAE J369)	SE/NBR
Peel Strength (ASTM D903 modified ¹)	92 N
Cantilever Bend Test (Custom Test ²)	Mm CD: 25 – 50 mm
Water Repellency (Primary Surface) (AATCC118)	Pass-1
Pressure Wash Durability (Custom Test ³)	Pass
Max Temperature, Continuous (ASTM C356, 24hr)	160°C
Max Temperature, Intermittent (ASTM C356, 30 min)	180°C

¹ Modifications to Peel Test ASTM D903

Separation between facing and substrate
 Specimen Size: 50mm by 150 mm, 25 mm thick
 Pull Angle: 90-degree
 Travel Rate: 50 mm / min.

² Cantilever Bend Test

See test method document

³ Pressure Wash Test

Specimen Size: 305 mm x 305 mm
 Number of Specimen: 3
 Liquid: Water, moderate temperature
 Water Pressure: 2,000 psi
 Nozzle: 25- degree spray pattern
 Test Process: To be held at 45-degree angle, 12" from samples primary surface.

Stream should form line of approximately 125 mm at surface of sample. 30 sweeps back and forth, 1 second per sweep for a total of 30 seconds to be performed.

Pass/Fail Critical: For material to pass 2 of 3 samples must show no tears, punctures, scars, deformations as a result of the pressure wash. Pictures of samples to be recorded.

Forming Requirements:

Adhesion: Facing should not separate from polyester fiber substrate during forming process, normal shipping and handling, and normal usage.

3-D Forming: Prior to forming material composite must meet requirements above. The finished composite may vary slightly from dimensional requirements as material is stretched and formed.

Acoustic Requirements:

Material must meet the following minimum random incidence absorption (ASTM C423) characteristics.

Composite Thickness (mm)	Sound Absorption Coefficient Random Incidence					
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
25.4	0.13	0.36	0.61	0.88	1.00	0.82
50.4	0.22	0.69	0.99	1.00	0.87	0.82

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