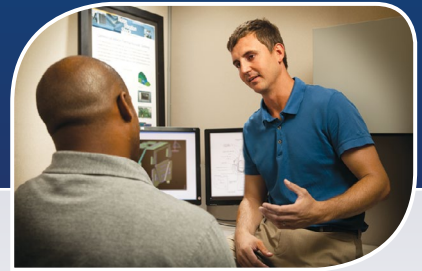
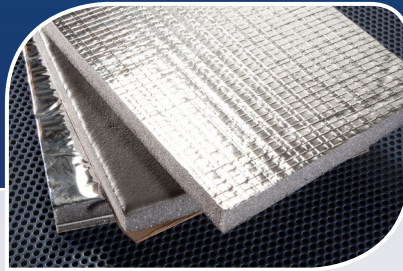
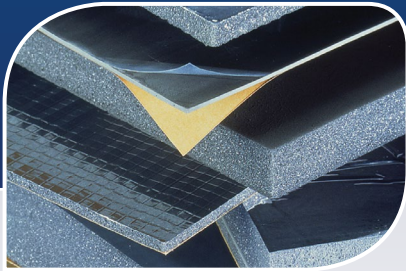




ABSORBING FOAMS

Material Summary Sheet 1



Offering solutions for a wide range of applications such as...

- Commercial vehicles
- Leisure vehicles
- Machine enclosures
- Appliances



Absorbing Foams

TUFCOTE™ acoustical absorbing foams are widely used to reduce noise levels within a given space—from equipment cabinetry to vehicle cabs. These tough urethane foams are easily installed, and are available with a variety of protective facings, in thicknesses to match the environmental needs of most any application.

E-A-R has formulated TUFCOTE acoustical foams to meet the needs of specific markets. M-Series foams, e.g., M-100RM, have been developed specifically for transportation applications, such as heavy-duty trucks. E-Series foams are for general OEM use. H-Series foams include additional flame retardant levels and are designed to meet industry requirements for electrical enclosures, generators and similar equipment.

- Economical, functional sound absorption
- Available in composite form with TUFCOTE barriers and with pressure-sensitive adhesive (PSA) backing
- Select from E-, M-, and H-Series, depending on flammability requirements

TYPICAL PROPERTIES					
PROPERTY		X-100SM	X-100RM	X-100BU	X-100SF
Description Top Surface Thickness mm (in) Nominal		1 mil Alum. Polyester 25.4 (1.0)	1 mil Reinforced Alum. Polyester 25.4 (1.0)	2.0 mil Black Urethane 25.4 (1.0)	Textured Surface 25.4 (1.0)
Weight Nominal kg/m² (lb/ft²) ASTM D3574	H E M	0.68 (0.14) 0.65 (0.13) 0.63 (0.13)	0.68 (0.14) 0.65 (0.13) 0.63 (0.13)	0.68 (0.14) 0.65 (0.13) 0.63 (0.13)	0.68 (0.14) 0.65 (0.13) 0.63 (0.13)
Density Nominal kg/m³ (lb/ft³) ASTM D3574	H E M	27 (1.7) 24 (1.5) 21 (1.3)	27 (1.7) 26 (1.6) 22 (1.4)	27 (1.7) 26 (1.6) 24 (1.5)	27 (1.7) 26 (1.6) 22 (1.4)
Flammability UL 94	H E M	Listed HF-1 Listed HBF	Meets HBF Listed HBF	Meets HBF Meets HBF	Listed HF-1 Meets HBF
FMVSS-302	H E M	Meets Meets Meets	Meets Meets Meets	Meets Meets Meets	Meets Meets Meets
Thermal Conductivity—K Value ASTM C177 W/m•K (BTU in/hr ft ² F)		.040 (0.28)	.040 (0.28)	.040 (0.28)	.039 (0.27)
Tensile Strength kPa (psi) Foam, ASTM D3574 at 23C (73F), ambient humidity		103 (15)	103 (15)	103 (15)	103 (15)
aged 70C (158F), 100% humid. x 2 wk		110 (16)	110 (16)	110 (16)	110 (16)
Facing, ASTM D882 kPa (psi)		1197 (25,000)	2011 (42,000)	287 (6,000)	N/A
Tear Strength kN/m (lbf/in) Foam, ASTM D3574		.65 (3.7)	.65 (3.7)	.65 (3.7)	.65 (3.7)
Temperature Range C (F) Recommended Service Temperature		-40C to 107C (-40F to 225F)	-40C to 107C (-40F to 225F)	-40C to 107C (-40F to 225F)	-40C to 107C (-40F to 225F)
RoHS Compliant		Yes	Yes	Yes	Yes

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums.

Materials must be tested under actual service to determine their suitability for a particular purpose.

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