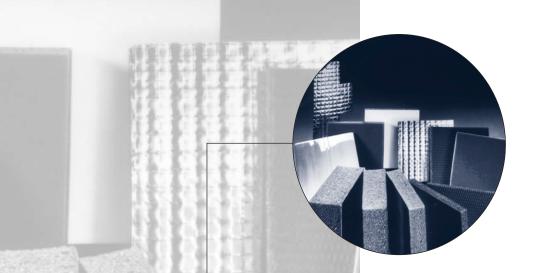
## F o a m s

Summary Sheet





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

Heavy trucks \_\_\_



Leisure vehicles





Office equipment



Appliances





Aearo Technologies • a 3M company

## 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 cut and installed, and are available with a variety of protective facings, in

thicknesses ranging from .25-inch to 2-inches, to match the environmental needs of most any application.

- Economical, functional sound absorption
- Available in sheets, rolls or easily installed custom die-cut forms
- 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

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.

## **Typical Properties**

<b>7</b> F						
Property	x-100SM	x-100CM	x-100BT	x-100RM	x-100BU	x-100SF
Description	1 mil	1 mil	1.5 mil	1 mil Reinforced	2.0 mil	Textured
Top Surface	Alum. Polyester	Clear Polyester	Black Tedlar	Alum. Polyester	Black Urethane	e Surface
Thickness cm (in)	2.54 (1.0)	2.54 (1.0)	2.54 (1.0)	2.54 (1.0)	2.54 (1.0)	2.54 (1.0)
Weight Nominal kg/m² (lb/ft²) H	0.68 (0.14)	0.68 (0.14)	0.68 (0.14)	0.68 (0.14)	0.68 (0.14)	0.68 (0.14)
ASTM D3574 <b>E</b>	0.65 (0.13)	0.65 (0.13)	0.65 (0.13)	0.65 (0.13)	0.65 (0.13)	0.65 (0.13)
M	0.63 (0.13)	0.63 (0.13)	0.63 (0.13)	0.63 (0.13)	0.63 (0.13)	0.63 (0.13)
Density Nominal kg/m³ (lb/ft³) H	27 (1.7)	27 (1.7)	27 (1.7)	27 (1.7)	27 (1.7)	27 (1.7)
ASTM D3574 <b>E M</b>	24 (1.5)	24 (1.5)	26 (1.6)	26 (1.6)	26 (1.6)	26 (1.6)
	21 (1.3)	21 (1.3)	24 (1.5)	22 (1.4)	24 (1.5)	22 (1.4)
Flammability H UL 94 E	Listed HF-1 Listed HBF	Meets HBF Listed HBF	Meets HBF Meets HBF	Meets HBF Listed HBF	Meets HBF Meets HBF	Listed HF-1 Meets HBF
OL 94 E	Listed HBF	Listea HBF	Meets upr	Listed HBF	ivieets HBF	ivieets nbr
FMVSS-302 H	Meets	Meets	Meets	Meets	Meets	Meets
F	Meets	Meets	Meets	Meets	Meets	Meets
M	Meets	Meets	Meets	Meets	Meets	Meets
Thermal Conductivity—K Value*						
ASTM C177 W/m•K (BTU in/hr ft² F)	.040 (0.28)	.040 (0.28)	.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)	103 (15)	103 (15)
aged 70C (158F), 100% humid. x 2 wk	110 (16)	110 (16)	110 (16)	110 (16)	110 (16)	110 (16)
Facing, ASTM D882 kN/m (lbf/in)	6.3 (36)	3.0 (17)	4.4 (25)	5.1 (29)	7.4 (42)	N/A
Tear Strength kN/m (lbf/in)*						
Foam, ASTM D3574	.65 (3.7)	.65 (3.7)	.65 (3.7)	.65 (3.7)	.65 (3.7)	.65 (3.7)
Facing, ASTM D1004						
at 2.54 cm (1 in) width	74 (420)	89 (506)	185 (1055)	85 (484)	231 (1320)	N/A
Elongation (%)*						
Foam, ASTM D3574						
at room temp., ambient humid.	200	200	200	200	200	200
aged 70C (158F), 100% humid. x 2 wk	141	141	141	141	141	141
Temperature Range C (F)						
Peak Performance	-40C to 107C	-40C to 107C			-40C to 107C	
	(-40F to 225F)	(-40F to 225F)	(-40F to 225F)	(-40F to 225F)	(-40F to 225F)	(-40F to 225F)
RoHS Compliant	Yes	Yes	Yes	Yes	Yes	Yes

The data listed in this materials summary 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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