

Noise, vibration and shock control

Tufcote - absorbing foams

Tufcote sound absorbing materials provide industry leading airborne noise absorption with consistency and durability. These polyurethane materials are an open cell design optimized to reduce sound signatures to manageable levels – even from industrial equipment in commercial appliances or enclosures for heavy machinery.

The proprietary manufacturing process chemically bonds the facing, adhesive and foam to resist delamination that can occur in other processes. With a selection from our variety of material facings, these materials stand up to the demanding temperature extremes from the arctic cold to desert heat.

- M-Series foams are formulated specifically for the transportation industry
- E-Series foams are for general OEM use
- H-Series foams feature additional flame retardants
- QUASH self-supporting sound management foams withstand exposure to fluids, grease and oil
- Foams can be combined with Tufcote barriers, a variety of functional facings and PSA backing

Benefits:

- Absorption frequencies aligned with equipment levels
- Reflective surfaces reflect radiant heat within equipment
- Thicknesses (inches) from 0.25 to 2.0
- Safe to handle
- Easy to cut and fabricate custom parts
- PSA eliminates the need for secondary attachments
- Facing for fluid protection

Applications:

Tufcote foams are used in diverse applications, including:

- Industrial enclosures
- Medical equipment
- Transport equipment
- Engine bays
- Locomotives/rail car
- Recreational vehicles
- Agricultural machinery
- Marine
- Appliances

Property	Aluminized polyester	Reinforced aluminized polyester	Black urethane	Textured surface
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	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	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	Listed HF-1 Listed HBF	Meets HBF Listed HBF	Meets HBF Meets HBF	Listed HF-1 Meets HBF
FMVSS-302	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)	.040 (0.27)
Tensile strength kPa (psi) Foam, ASTM D3574 at 23°C (73°F), ambient humidity	103 (15)	103 (15)	103 (15)	103 (15)
Aged 70°C (158°F), 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	-40°C to 107°C (-40°F to 225°F)	-40°C to 107°C (-40°F to 225°F)	-40°C to 107°C (-40°F to 225°F)	-40°C to 107°C (-40°F to 225°F)
RoHS compliant	Yes	Yes	Yes	Yes

Contact us

Trelleborg Applied Technologies delivers innovative and reliable solutions, materials and smart systems that maximizes performance for our customers. Our dedicated and highly skilled staff are always on hand to provide seamless process support from initial idea, through to delivery and beyond.



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