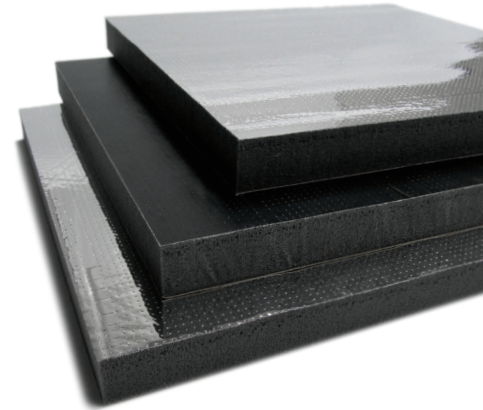


TUFCOTE™ XL Acoustic Foams

Product Description

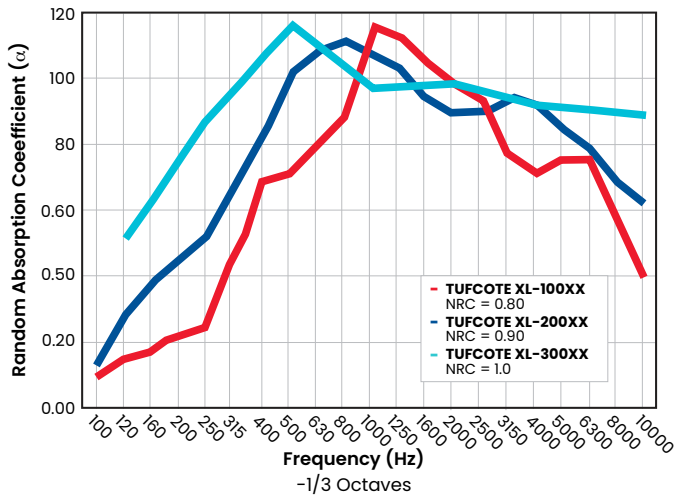
TUFCOTE™ XL Acoustic Foam is the latest innovation in the Aearo Technologies portfolio of acoustic products. TUFCOTE™ XL acoustic foam is manufactured with an optimized cellular construction to create a new material capable of achieving a Noise Reduction Coefficient (NRC) of 0.8 at 1-inch thickness. Available with an aluminized or black surface, this material can also protect fragile components from heat sources within the equipment.



| TYPICAL PHYSICAL PROPERTIES | TUFCOTE XL-100XX | TUFCOTE XL-200XX | TUFCOTE XL-300XX |
|--|---|---|---|
| Description Top Surface | Modified 1.0 mil Aluminized Polyester (AP) or Modified 1.0 mil Black Polyester (BP) | Modified 1.0 mil Aluminized Polyester (AP) or Modified 1.0 mil Black Polyester (BP) | Modified 1.0 mil Aluminized Polyester (AP) or Modified 1.0 mil Black Polyester (BP) |
| Foam Thickness mm (in) Nominal | 25.4 (1) | 50.8 (2) | 76.0 (3) |
| Density Nominal kg/m³ (lb/ft ³) ASTM D3574 | 28.8 (1.8) | 28.8 (1.8) | 28.8 (1.8) |
| Flammability (Foam Only) UL94 HF-1 UL2200 FMVSS302 | Listed Listed Meets | Listed Listed Meets | Listed Listed Meets |
| Tensile Strength, Foam, kPa (psi) ASTM D3574 @ 23°C (73°F), Ambient Humidity @ 70°C (158°F), 100% Humidity x 2 weeks | 101 (14.7) 117 (16) | 101 (14.7) 117 (16) | 101 (14.7) 117 (16) |
| Elongation, Foam (%) ASTM D3574 @ Room Temperature, Ambient Humidity | 109 | 109 | 109 |
| Tear Strength kN/m (lbf/in) Foam, ASTM D3574 Facing, ASTM D882 kPa (psi) | 0.46 (2.6) 73 (420) | 0.46 (2.6) 73 (420) | 0.46 (2.6) 73 (420) |
| Thermal Conductivity – k Value ASTM C177 W/m•K (BTU in./hr ft ² F) | 0.038 (0.264) | 0.038 (0.264) | 0.038 (0.264) |
| Random Incidence Absorption Coefficient ASTM C423 @ 125 Hz @ 250 Hz @ 500 Hz @ 1000 Hz @ 2000 Hz @ 4000 Hz NRC | 0.14 0.33 0.72 1.17 1.0 0.72 0.80 | 0.40 0.52 1.24 1.00 0.86 0.89 0.90 | 0.5 0.88 1.18 0.93 0.97 0.89 1.0 |
| Temperature Range °C (°F) Recommended Service Temperature | -40 to 107 (-40 to 225) | -40 to 107 (-40 to 225) | -40 to 107 (-40 to 225) |
| RoHS Compliant | Yes | Yes | Yes |



TUFCOTE™ XL Foam Acoustic Performance – ASTM C423



Regulatory Information

Please refer to the product label and Safety Data Sheet (SDS) for health and safety information before using. Observe proper handling precautions as outlined in the SDS, which is available on request or at www.3M.com/msds.

The product is published as a material entry and is available for access on www.mdsystem.com. For product IMDS I.D. number, email requests to 3M-IMDSrequest@mmm.com.

Contact Information

The information provided in this technical document is intended as a guide for these products. For more information or help in selecting a 3M product for an application, please contact your 3M technical service representative or call 1-800-328-1684.

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