

Product Description

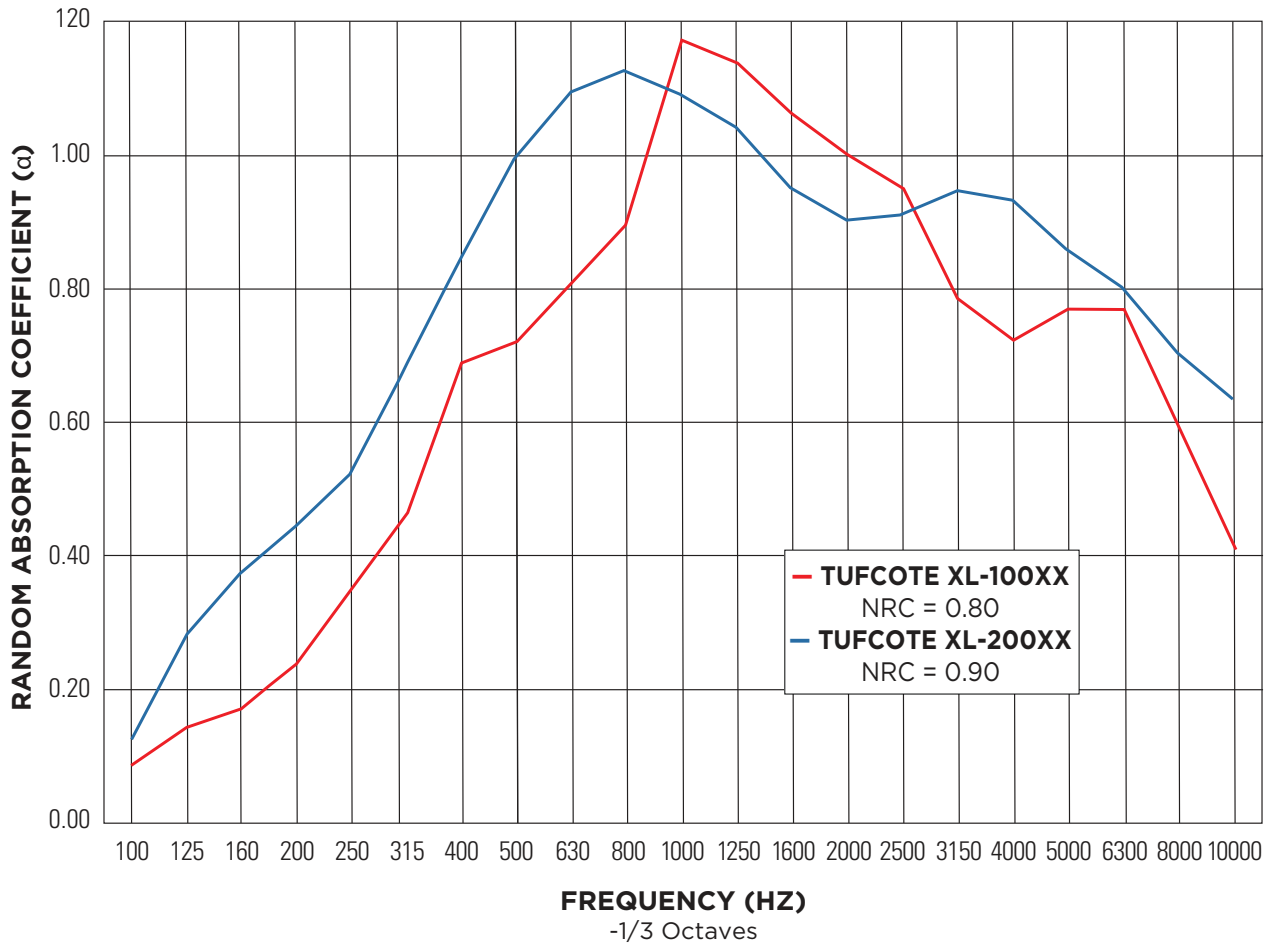
TUF-COTE™ XL Acoustic Foam is the latest innovation in the E-A-R™ branded portfolio of acoustic products. TUF-COTE™ XL acoustic foam is manufactured with an optimized cellular construction to create a new material capable of achieving a Noise Reduction Coefficient (NRC) of 0.8 at 1-inch thickness. Available with an aluminized or black surface, this material can also protect fragile components from heat sources within the equipment. The XL foam meets HF-1 flame rating and the requirements of UL2200.

TYPICAL PROPERTIES	TUF-COTE XL-100XX	TUF-COTE XL-200XX
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)
Foam Thickness mm (in) Nominal	25.4 (1)	50.8 (2)
Density Nominal kg/m³ (lb/ft³) ASTM D3574	28.8 (1.8)	28.8 (1.8)
Flammability (Foam Only) UL2200 UL94 HF-1 FMVSS302	Meets Listed Meets	Meets 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)
Elongation, Foam (%) ASTM D3574 @ Room Temperature, Ambient Humidity	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)
Thermal Conductivity – "k" Value ASTM C177 W/m•K (BTU in./hr ft ² F)	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 0.23 0.72 1.17 1.0 0.72 0.80	0.28 0.52 1.09 1.11 0.90 0.93 0.90
Temperature Range °C (°F) Recommended Service Temperature	-40 to 107 (-40 to 225)	-40 to 107 (-40 to 225)
RoHS Compliant	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.



TYPICAL RANDOM ABSORPTION
ASTM C423



Technical Information

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