

PRODUCT: AF-021-X0-RA-00

REV100323NT

PRODUCT DESCRIPTION: Acoustic polyether foam with reinforced aluminum foil facing.

FACING

Physical Property	Description - Value	Test Method
Material	Foil – Aluminum Reinforcement – Bi-directional 150/0 Fiberglass	
Basis Weight	23.1 lb/ft ² (1106 N/m ²) +/- 10%	Scale
Total Thickness	7.8 mil (0.198 mm) +/- 10%	Micrometer
Foil Thickness	1 mil (0.254 mm) +/- 10%	
Reinforcement	5/in (20/100mm) (Machine or Cross Direction)	
Mullen Burst	45 psi (310 kPa)	ASTM D 774
Tensile Strength	40 lb/in width (7.0 kN/m width) Machine or Cross Direction	ASTM C 1136
Low Temperature Resistance	Remains Flexible with No Delamination @ -40 °F (-40 °C)	ASTM C 1263
High Temperature Resistance	Remains Flexible with No Delamination	10 min @ 401 °F (205 °C)
Water Immersion	No Delamination	48 hours @ 73 °F (23 °C)
Emissivity (Foil Side)	<= 0.05	ASTM E 408
Flammability	Self-Extinguishing	FMVSS 302-98

Physical Properties based upon statistical averages.

FOAM

Physical Property	Description - Value	
Material	Polyether Polyurethane Foam	
Color	Charcoal	
Available Thicknesses	0.125 in (3.18 mm) – 4.0 in (102 mm)	
Density	1.80 lb/ft ³ (282 N/m ³) +/- 0.10%	
	Minimum	Average
Elongation	140%	250%
Indentation Force Deflection 25% Deflection	0.6 psi (4.1 kPa)	0.8 psi (5.5 kPa)
Indentation Force Deflection 65% Deflection	1.0 psi (6.9 kPa)	1.4 psi (9.7 kPa)
Retention of Tensile Strength after 5 hours, 120°C, Steam Autoclave	70% minimum	
Retention of Tensile Strength after 22 hours, 140°C, Dry Heat Aging	70% minimum	
Flammability	FMVSS 302, UL 94 HF-1	

Test Methods: ASTM-D3574-[latest revision]. Standard Methods of Testing Flexible Cellular Materials – Slab, Bonded, and Molded Urethane Foam.

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