

PRODUCT: AF-051-X0-AR-00

REV090123NT

PRODUCT DESCRIPTION: Acoustic vinyl nitrile closed cell foam with reinforced aluminized polyester film facing.

FACING

Physical Property	Description - Value	Test Method
Material	Polyester Film - Metalized Polyethylene Terephthalate (PET) Reinforcement - Bi-Directional Fiberglass	
Color	Metallic Aluminized	
Total Thickness	8.8 mil (0.224 mm) +/- 10%	Micrometer
Basis Weight	0.0146 lb/ft ² (0.699 N/m ²)	Scale
Mullen Burst	100 psi (689 kPa)	ASTM D 774
Tensile Strength	45 lb/in width (7.9 kN/m width) (Machine or Cross Direction)	ASTM C 1136
Low Temperature Resistance	Remains Flexible with No Delamination at -40 °F (-40 °C)	ASTM D 1790
High Temperature Resistance	Remains Flexible with No Delamination	4 hours @ 240 °F (116 °C)
Water Immersion	No Delamination	48 hours @ 73 °F (23 °C)

Physical Properties based upon statistical averages.

FOAM

Physical Property	Description - Value	Test Methods
Material	Nitrile Butadiene, Polyvinyl Chloride blend	
Color	Black	
Available Thicknesses	0.125 in (3.18 mm) – 2.0 in (51 mm)	N/A
Density	3-6 lb/ft ³ (471-943 N/m ³)	ASTM D 1667
Dimensional Stability	<7% Linear Shrinkage	ASTM C 534
Flexibility	Excellent, Pass: Cold Crack Test at -40 °F (-40 °C)	ASTM C 534 & ASTM D 1056
Hot Surface Performance	No Cracking or Delamination	ASTM C 411
Thermal Conductivity Btu-in/hr-Ft ² -°F (W/mK)	90 °F Mean Temp = 0.258 (0.0372) 75 °F Mean Temp = 0.245 (0.0353) 32 °F Mean Temp = 0.235 (0.0339)	ASTM C 177
Operating Temperature Range	-40 to 200 °F (-40 to 93 °C)	ASTM C 534
Flame Spread / Smoke Development (up to 2 in wall)	< 25/50	ASTM E 84
Flammability	Self-Extinguishing Pass Pass Pass Pass	ASTM D 635 FMVSS 302 UL 94-5V UL 94-V0 FAR 25.853
Water Vapor Permeability (Dry Cup)	< 0.01 perm-in	ASTM E 96
Water Absorption (Volume Change)	0%	ASTM C 209
Leachable Chlorides	< 0.05% water-soluble chloride ions	DIN 1988
Corrosion Risk	pH neutral: 6.6 +/- 0.04	DIN 1988
Chemical/Solvent/Oil/Grease Resistance	Good	Compatibility Data Available on Request
Ozone Resistance	Pass	ASTM D 1171
Odor Emissions	No Objectionable Odor	ASTM C 1304
UV / Weather Resistance	Good	ASTM G 90
Mildew Growth Resistance/Air Erosion	Pass	UL 181, ASTM G 21
Sound Transmission Class	13	ASTM E 90

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