

**PRODUCT: AF-021-X0-AR-00**

**REV061923NT**

**PRODUCT DESCRIPTION:** Acoustic polyether 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 <sup>2</sup> (0.699 N/m <sup>2</sup> )	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)

## 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 <sup>3</sup> (282 N/m <sup>3</sup> ) +/- 0.10%	
	<b>Minimum</b>	<b>Average</b>
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.

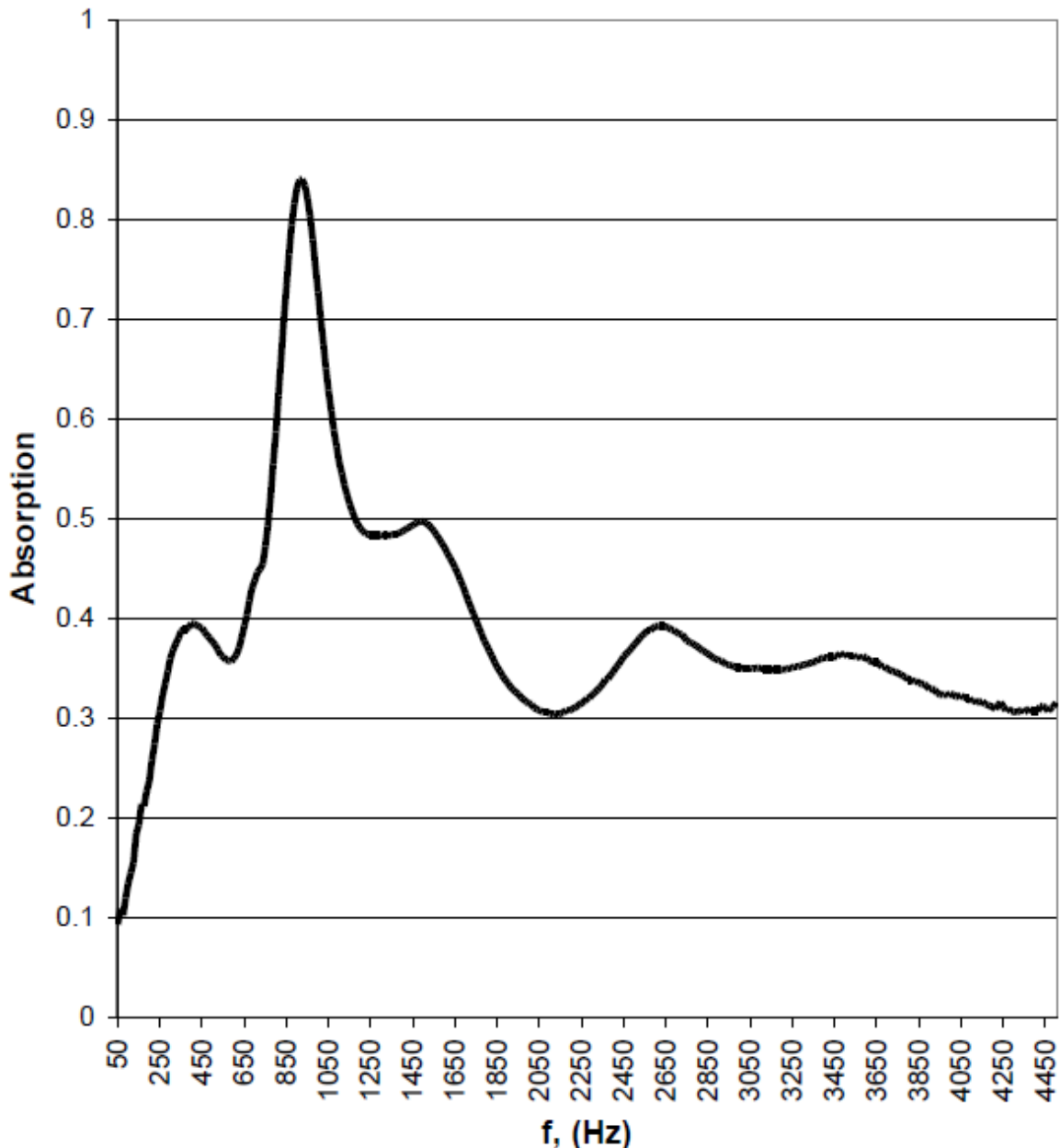
## ACOUSTIC PROPERTIES

### Absorption Coefficient and NRC to ASTM E 1050

For AF-021-40-AR-00

Frequency (f) [Hz]	125	250	500	1000	2000	4000	NRC
Absorption Coefficient	0.08	0.19	0.43	0.87	0.59	0.40	<b>0.52</b>

**ASTM E1050**  
**Normal Incidence Absorption**  
**AF-021-40-AR-00**



THE VALUES PRESENTED ARE TYPICAL AND ARE NOT INTENDED FOR SPECIFICATION PURPOSES. This information is provided without warranty, representation, inducement or license of any kind. INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE, except that it is accurate to the best of Technicon Industries' knowledge or obtained from sources believed by Technicon Industries to be accurate, and Technicon Industries does not assume any legal responsibility for the use or reliance upon same. Customers are encouraged to conduct their own tests for suitability and conformance.