

PRODUCT: AF-001-X0-ED-00

REV100323NT

PRODUCT DESCRIPTION: Acoustic open-cell polyester foam with embossed face.

Physical Property	Description - Value	
Material	Polyester Polyurethane Foam	
Color	Charcoal	
Available Thicknesses	0.125 in (3.18 mm) - 4.0 in (102 mm)	
Density	2.00 lb/ft ³ (314 N/m ³) +/- 0.10%	
	Minimum	Average
Tensile Strength	18.0 psi (124 kPa)	25.0 psi (172 kPa)
Elongation	170%	220%
Tear Resistance	2.00 lb/in (3.50 N/cm)	2.50 lb/in (4.37 N/cm)
Compression Force Deflection 25% Deflection	0.40 psi (2.8 kPa)	0.50 psi (3.4 kPa)
Compression Force Deflection 50% Deflection	0.45 psi (3.1 kPa)	0.60 psi (4.1 kPa)
Compression Set @ 50%	8% maximum	
Retention of Tensile Strength after 3 hours, 105°C, Steam Autoclave	70% minimum	
Retention of Tensile Strength after 22 hours, 140°C, Dry Heat Aging	70% minimum	
Pores per inch	55 +/- 5	
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 DATA

ABSORPTION COEFFICIENT, SAA and NRC to ISO 354

For AF-001-40-ED-92

1/3 Octave Band Frequency [Hz]	Absorption Coefficient (α_s)
100	0.07
125	0.06
160	0.09
200	0.14
250	0.24
315	0.30
400	0.39
500	0.57
630	0.74
800	0.87
1000	1.06
1250	1.02
1600	0.82
2000	0.78
2500	0.77
3150	0.84
4000	0.93
5000	0.89
NRC	0.66
SAA	0.64

**ISO 354:2003 - Sound Absorption in Reverb
Room**

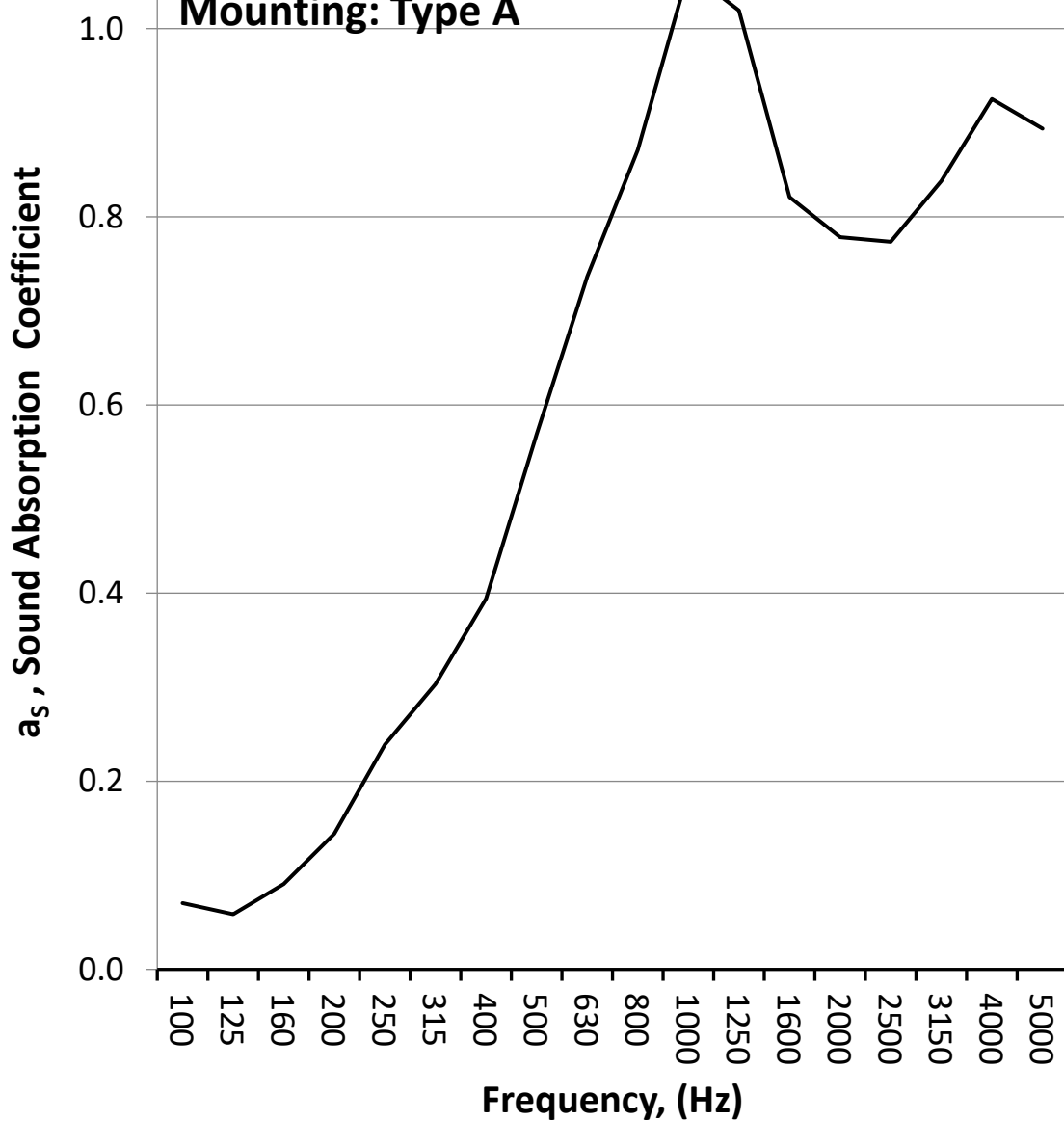
Test ID: 354-060713

Product Description: AF-001-40-ED-92

Manuf: Technicon Acoustics

Thickness: 1 inch

Mounting: Type A

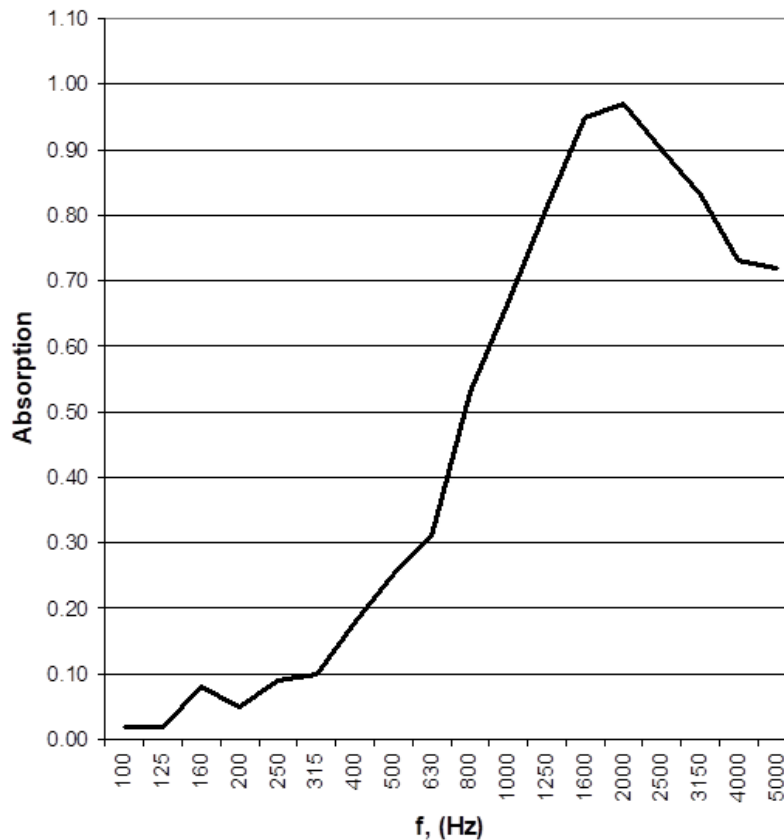


ABSORPTION COEFFICIENT AND NRC to ASTM C423

For AF-001-10-ED-32

1/3 Octave Band Frequency [Hz]	Absorption Coefficient (α_s)
125	0.02
250	0.09
500	0.25
1000	0.67
2000	0.97
4000	0.73
NRC	0.50

ASTM C423 Random Incidence Absorption AF-001-10-ED-32



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