

PROPERTY	TEST METHOD	SI VALUE	U.S. VALUE
MECHANICAL			
Density	ASTM D 3574, Test A	5.7 kg/m ³	0.36 lb/ft ³
Load Deflection At 25% Compression	ASTM D 3574, Test B ₁	70 N/323 cm ²	16 lb/50 in ²
Compression Set At 50% Deflection	ASTM D 3574, Test D	< 30%	< 30%
THERMAL			
Thermal Conductivity (k)	ASTM C 518 at mean temperature of 24°C (75°F)	0.047 W/(m·K)	0.33 (BTU·in)/(hr·ft ² ·°F)
Continuous Use Temperature	Recommended maximum	200°C	400°F
FLAMMABILITY			
Oxygen Index	ASTM D 2863	> 30%	> 30%
Vertical Burn:	FAR §25.853(a), Appendix F, Part I, (a)(1)(i)	0 seconds	0 seconds
After flame time		56 mm	2.2 inches
Burn length		None	None
Dripping			
Smoke Emission:	FAR §25.853(d), Appendix F, Part V	3	3
D _s at 4.0 minutes			
Toxic Gas Generation:	Boeing BSS 7239, flaming mode	130 ppm	130 ppm
CO		Not detected	Not detected
HCN		Not detected	Not detected
HF		Not detected	Not detected
HCl		Not detected	Not detected
SO ₂		Not detected	Not detected
NO _x		10 ppm	10 ppm
AGING			
Humid Aging:	ASTM C 518 and D 3574, Test C after 1,000 hours at 70°C (158°F) and 95-98% relative humidity	- 2%	- 2%
Thermal conductivity change		80%	80%
50% CFD retained		0%	0%
Weight gain			
Dry Oven Aging:	ASTM D 3574, Tests B ₁ , D and FAR §25.853(a), Appendix F, Part I, (a) (1) (i) after aging at 70°C (158°F) for 7 days in accordance with ASTM D573	- 3%	- 3%
Load deflection change		+ 5%	+ 5%
Compression set change		< 2%	< 2%
Volume shrinkage		0 seconds	0 seconds
Vertical Burn - After flame time		51 mm	2.0 inches
Vertical Burn - Burn length		None	None
Vertical Burn - Dripping			
ACCOUSTICAL			

ACOUSTICAL ABSORPTION COEFFICIENTS FOR FLEXED FOAM
(metric sabins/m² or sabins/ft²)
ASTM C 423 and E 795, Type A Mounting

Thickness		Frequency (Hz)						NRC
		125	250	500	1000	2000	4000	
25 mm	(1 inch)	0.06	0.17	0.52	1.05	1.02	0.93	0.70

*The above are typical values subject to normal manufacturing variation.