

PROPERTY	TEST METHOD	SI VALUE	U.S. VALUE
MECHANICAL			
Density	ASTM D 3574, Test A	7 kg/m ³	0.44 lb/ft ³
50% Compression Force Deflection	ASTM D 3574, Test C	9 kPa	1.3 lb/in ²
Tensile Strength	ASTM D 3574, Test E	≥ 60 kPa	≥ 8.5 lb/in ²
THERMAL			
Thermal Conductivity (k)	ASTM C 518 at mean temperature of 24°C (75°F)	≤ 0.042 W/(m·K)	≤ 0.29 (BTU·in)/(hr·ft ² ·°F)
Thermal Resistivity (r)	ASTM C 518 at mean temperature of 24°C (75°F)	≥ 24 (m·K)/W	≥ 3.4 (hr·ft ² ·°F)/(BTU·in)
FLAMMABILITY			
Radiant Panel Flame Spread Index	ASTM E 162	≥ 5	≥ 5
Specific Optical Density of Smoke, D _m :	ASTM E 662		
Non-flaming		3	3
Flaming		5	5
Toxic Gas Generation:	Boeing BSS 7239, flaming mode		
CO		180 ppm	180 ppm
HCN		< 1 ppm	< 1 ppm
HF		< 1 ppm	< 1 ppm
HCl		< 10 ppm	< 10 ppm
SO ₂		< 1 ppm	< 1 ppm
NO _x		< 1 ppm	< 1 ppm
AGING			
Steam Autoclave Aging: Tensile strength retained	ASTM D 3574, Test J, Procedure J, and Test E	> 85%	> 85%
Dry Oven Aging: Tensile strength retained Change in volume	ASTM D 3574, Test E after 1000 hours at 204°C (400°F)	> 60% < 2%	> 60% < 2%
ACOUSTICAL			

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

Thickness	Frequency (Hz)						NRC
	125	250	500	1000	2000	4000	
25 mm (1 inch)	0.11	0.21	0.56	0.98	0.97	0.81	0.70
50 mm (2 inches)	0.32	0.53	0.94	1.02	0.87	0.90	0.85