

Expanded PVC



Typical Properties*

Property	Test Method	Units	Values (3 mm)	Values (10 mm)
PHYSICAL				
Density	ASTM D 1505	g/cm ³	41-44	34-37
Water absorption	ASTM D 570	%	0.5	0.8
MECHANICAL				
Tensile strength, yield	ASTM D 638	MPa (psi)	16 (2,300)	11 (1,600)
Elongation at break	ASTM D 638	%	30	20
Flexural modulus	ASTM D 790	MPa (psi)	900 (130,500)	900 (130,500)
Flexural strength @ yeild	ASTM D 790	MPa (psi)	28 (4,061)	22 (3,190)
Notch impact strength, Charpy	ASTM D 256	J/m (ft-lbf/in)	29 (0.54)	17 (0.32)
THERMAL				
Long term service temperature		°F (°C)	14 to 131 (-15 to 55)	14 to 131 (-15 to 55)
Heat deflection temperature	ASTM D 648	°F (°C)	145 (63)	145 (63)
Vicat softening temperature	ASTM D 1525	°F (°C)	167 (75)	167 (75)
Coefficient of linear thermal expansion	ASTM D 696	10 ⁻⁵ /°C (10 ⁻⁵ /°F)	3.7 (6.7)	3.7 (6.7)
Thermal conductivity	ASTM C 177	W/m ² K (Btu-in./hr-ft ²)	0.49 (0.07)	0.49 (0.07)
OPTICAL				
Whiteness index	ASTM D 792	WI	101	101
ELECTRICAL				
Surface resistance	ASTM D 257	Ohm	5 x 10 ¹⁵	5 x 10 ¹⁵
Volume resistance	ASTM D 257	Ohm - cm	2 x 10 ¹⁵	2 x 10 ¹⁵

*Typical properties are not intended for specification purposes.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.