

Product Data - Expanded PVC



Typical Properties*

Property	Test Method	Units	Values (3 mm)	Values (10 mm)
PHYSICAL				
Density	ASTM D 1505	lb/ft 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 x10 ¹⁵	5 x10 ¹⁵
Volume resistance	ASTM D 257	Ohm-cm	2 x10 ¹⁵	2 x10 ¹⁵

*Typical properties are not intended for specification purposes.

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