



LEHIGH VALLEY PLASTICS

We Shape The Industry

Expanded PVC Typical Properties

Property	Units	Value: 1mm - 6mm	Value: 10mm - 25mm	ASTM Method
Physical				
Density	g/cm ³	0.70	0.55	D 792
Water Absorption	%	0.3	0.15	D 570
Water Absorption	%	0.9	—	D 2842
Mechanical				
Tensile Strength	psi	3000	2256	D 638
Tensile Modulus	psi	232,000	144,000	D 638
Flexural Strength	psi	—	3329	D 790
Flexural Modulus	psi	—	144,219	D 790
Nail Hold	Lbf/in of penetration	—	35	D 1761
Screw Hold	Lbf/in of penetration	—	680	D 1761
Staple Hold	Lbf/in of penetration	—	180	D 1761
Gardner Impact	in/lbs	—	103	D 4228
Izod Impact Strength	ft-lb/in	0.53	—	D 256
Charpy Impact (Un-notched @23°)	ft-lb/in	8.1	4.5	D 256
Thermal				
Heat Deflection Temp (264 psi)	°F	151	150	D 648
Coefficient of Linear Expansion	in/in/°F	4.0 × 10 ⁻⁵	3.2 × 10 ⁻⁵	D 696
Thermal Conductivity	W/mK	0.084	—	C 177
Flammability Ratings				
Burning Rate	in/min	No burn when flame removed	No burn when flame removed	—
Flame Spread Index	—	20	20	E 84
Vertical Burn Test	—	5-V	—	UL 94
Foam Fire Test	—	Passed/Classified	—	UL 1975
Oil Canning (@ 140°)	°F	—	Passed	D 648
Electrical				
Dielectric Strength	kV/cm	112	—	D 149

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