

PVC Type 1 - Typical Properties

Property	Units	Value(1)	ASTM Method
Physical Properties			
Density	g/cm ³	1.42	D 792
Water Absorption	%	0.06	D 570
Rockwell Hardness	R Scale	115	D 785
Shore Durometer	D	89	D 2240
Cell Class	—	12454-B	1784
Mechanical Properties			
Tensile Modulus	psi	411,000	D 638
Yield Strength	psi	7,500	D 638
Flexural Modulus	psi	481,000	D 790
Yield Strength	psi	12,800	D 790
Izod Impact	ft-lb/in	1.0	D 256
Thermal Properties			
Vicat Softening Point	°C/F	83/181	D 1525
Heat Deflection Temperature	°C/F	82/179	D 648
Heat Deflection Temperature	°C/F	80/176	D 648
Linear Coefficient of Expansion	in/in/°C	5.8×10^{-5}	D 696
Linear Coefficient of Expansion	in/in/°F	3.2×10^{-5}	D 696
Flammability Ratings			
Flammability	—	Self-Extinguishing	D 635
Flammability	—	0	UL 94V
Flame Spread	—	15	E 84
Chemical Properties			
Chemical Resistance	—	Class B	D 1784
Electrical Properties			
Electrical Volume Resistivity	Ohm/cm	5.4×10^{15}	D 257
Dielectric Constant	60 Hz	3.19	D 150
Dissipation Factor	60 Hz	0.0096	D 150
Loss Index	60 Hz	0.030	D 150
Dielectric Strength	Volts/mil	544	D 149