

Typical Physical Properties: Vintec I®

Property	Units of Measure	Value	ASTM Method
Physical			
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 224
Cell Class	-	12454-B	D 1784
Mechanical			
Tensile Modulus	psi	411,000	D 638
Yield Strength	psi	7,500	D 790
Flexural Modulus	psi	481,000	D 790
Yield Strength	psi	12,800	D 790
Izod Impact Strength	ft-lb/in	1.0	D 256
Thermal			
Vicat Softening Point	°C/°F	83/181	D1525
Heat Deflection Temp (66 psi)	°C/°F	82/179	D 648
Heat Deflection Temp (264 psi)	°C/°F	80/176	D 648
Coefficient of Linear Expansion	in/in/°C	5.8 x 10 ⁻⁵	D 696
Coefficient of Linear Expansion	In/in/°F	3.2 x 10 ⁻⁵	D 696
Flammability Ratings			
Flame Spread Index	—	20	E 84
Flammability	—	0	UL 94V
Flammability	—	Self Extinguishing	D635
Chemical			
Chemical Resistance	-	Class B	D 1784
Electrical			
Electrical Volume Resistivity	Ohm/cm	5.4 x 10 ¹⁵	D 257
Dielectric Constant	60 Hz	3.9	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

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The "Typical" properties of our plastic sheet cannot be automatically used when engineering finished components; and the fabricator or end user is responsible for insuring the suitability of our products for their specific application or end use!