



Typical Properties of Techtron® HPV LSG

ISO (IEC) Test Method	Property	Techtron® HPV LSG
PHYSICAL		
1183	Density (lb/in ³) (g/cm ³)	0.051 1.42
62	Water Absorption, 24 hrs (%)	0.01
MECHANICAL		
527	Tensile Strength (psi / MPa)	11,300 / 78
527	Tensile Modulus (psi / MPa)	580,000 / 4,000
527	Tensile Elongation at Break (%)	3.5
178	Flexural Strength (psi / MPa)	17,100 / 118
178	Flexural Modulus (psi / MPa)	-
-	Compressive Strength (psi / MPa)	-
-	Compressive Modulus (psi / MPa)	-
2039-2	Hardness, Rockwell	M 82
179-1/1eA	Charpy Notched Impact (kJ/m ²)	4
THERMAL		
-	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F) (x 10 ⁻⁵ mm/mm/°K)	2.8 5.0
75	Heat Deflection Temp (°F / °C) at 264 psi / 1.8 MPa	239 / 115
11357	Melting Temp (°F / °C)	536 / 280
-	Max Operating Temp (°F / °C)	428 / 220
-	Thermal Conductivity (BTU-in/ft ² -hr-°F) (W/m-°C)	2.1 .30
UL94	Flammability Rating	V-0
ELECTRICAL		
(60243)	Dielectric Strength (kV/mm) short time	24
(60250)	Dielectric Constant	3.3
(60250)	Dissipation Factor at 1 MHz	0.003
(60093)	Surface Resistivity (ohm-cm)	> 10 ¹³
(60093)	Volume Resistivity (ohm-cm)	> 10 ¹⁴

NOTE: Information contained herein are typical values intended for reference and comparison purposes only. This data should not be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets.

All values at 73°F (23°C) unless otherwise noted.

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