

General Properties

MEASUREMENT	METHOD/CONDITION	METRIC	US
Specific Gravity	ASTM D792	1.49 g/cm ³	1.49 g/cm ³
Moisture Absorption 24 hrs	ASTM D570	0.22 %	0.22 %

Mechanical Properties

MEASUREMENT	METHOD/CONDITION	METRIC	US
Tensile Strength, Yield	ASTM D638	27 MPa	3916 psi
Tensile Strength, Ultimate	ASTM D638	26 MPa	3771 psi
Tensile Modulus	ASTM D638	4068 MPa	590 ksi
Elongation at Yield	ASTM D638	1.4 %	1.4 %
Elongation at Break	ASTM D638	1.4%	1.4%
Flexural Strength, Yield	ASTM D790	N/A	N/A
Flexural Strength, Ultimate	ASTM D790	37 MPa	5366 psi
Flexural Modulus	ASTM D790	3106 MPa	450 ksi
Hardness, Shore D	ASTM D2240	77	77
Impact Strength (notched Izod, 23 °C)	ASTM D256	41 J/m	0.8 ft-lb/in
Impact Strength (unnotched Izod, 23 °C)	ASTM D256	123 J/m	2.3 ft-lb/in
Gardner Impact	ASTM D5420	4.5 J	3.3 ft-lb

Thermal Properties

MEASUREMENT	METHOD/CONDITION	METRIC	US
Heat Deflection Temperature (HDT)	ASTM D648 @ 0.45 MPa @ 1.82 MPa	179 °C 134 °C	354 °F 273 °F
Coefficient of Thermal Expansion	ASTM E831 @ 0-50 °C @ 85-145°C	82.6 μm/m-°C 179.2 μm/m-°C	45.9 μin/in-°F 99.6 μin/in-°F
Specific Heat Capacity	ASTM E1269	1.09 J/g-°C	0.261 BTU-in/hr-ft ² -°F
Thermal Conductivity	ASTM E1225	0.47 W/m-K2	3.26 BTU-in/hr-ft ² -°F
Flammability	UL94	HB	HB

Electrical Properties

MEASUREMENT	METHOD/CONDITION	METRIC	US
Volume Resistivity	ASTM D257	3.2 X 10 ¹¹ ohm-cm	3.2 X 10 ¹¹ ohm-cm
Surface Resistivity	ASTM D257	3.2 X 10 ¹¹ ohm	3.2 X 10 ¹¹ ohm
Dissipation Factor, 1 KHz	ASTM D150	0.177	0.177
Dielectric Constant, 1 KHz	ASTM D150	6.27	6.27
Dielectric Strength	ASTM D149	8.7 kV/mm	221 kV/in