

General Properties

MEASUREMENT	METHOD/CONDITION	METRIC	US
Specific Gravity	ASTM D792	1.01 g/cm ³	1.01 g/cm ³
Moisture Absorption 24 hrs	ASTM D570	0.48 %	0.48 %
Moisture Saturation	ASTM D570	1.15 %	1.15 %

Mechanical Properties

MEASUREMENT	METHOD/CONDITION	METRIC	US
Tensile Strength, Yield	ASTM D638	37 MPa	5366 psi
Tensile Strength, Ultimate	ASTM D638	48 MPa	6961 psi
Tensile Modulus	ASTM D638	1517 MPa	220 ksi
Elongation at Yield	ASTM D638	5 %	5 %
Elongation at Break	ASTM D638	47 %	47 %
Flexural Strength, Yield	ASTM D790	42 MPa	6091 psi
Flexural Strength, Ultimate	ASTM D790	46 MPa	6672 psi
Flexural Modulus	ASTM D790	1310 MPa	190 ksi
Hardness, Shore D	ASTM D2240	74	74
Hardness, Rockwell L	ASTM D785	69	69
Hardness, Rockwell M	ASTM D785	34	34
Impact Strength (notched Izod, 23 °C)	ASTM D256	74 J/m	1.4 ft-lb/in
Impact Strength (unnotched Izod, 23 °C)	ASTM D256	11.8 J/m	8.7 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	188 °C 48 °C	370 °F 118 °F
Coefficient of Thermal Expansion	ASTM E831 @ 0-50 °C @ 85-145 °C	120 μm/m-°C 342 μm/m-°C	66.7 μin/in-°F 190 μin/in-°F
Specific Heat Capacity	ASTM E1269	1.09 J/g-°C	0.418 BTU/lb-°F
Thermal Conductivity	ASTM E1225	0.47 W/m-K2	3.5 BTU-in/hr-ft2-°F
Flammability	UL94	HB	HB

Electrical Properties

MEASUREMENT	METHOD/CONDITION	METRIC	US
Volume Resistivity	ASTM D257	1.3 X 10 ¹³ ohm-cm	1.3 X 10 ¹³ ohm-cm
Surface Resistivity	ASTM D257	4.9 X 10 ¹² ohm	4.9 X 10 ¹² ohm
Dissipation Factor, 1 KHz	ASTM D150	0.050	0.050
Dielectric Constant, 1 KHz	ASTM D150	4.5	4.5
Dielectric Strength	ASTM D149	18.5 kV/mm	470 kV/in