

Unitika B2040G50 PA66, 50% Glass Fiber Reinforced, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-B2040G50-PA66-50-Glass-Fiber-Reinforced-Dry.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.4 %	1.4 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ISO 2039
Tensile Strength at Break	220 MPa	31900 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	16.7 GPa	2420 ksi	ISO 527-1/-2
Flexural Strength	360 MPa	52200 psi	ISO 178
Flexural Modulus	13.5 GPa	1960 ksi	ISO 178
Charpy Impact Unnotched	9.50 J/cm ²	45.2 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 μm/m-°C	11.1 μin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	252 °C	486 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	233 °C	451 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+12 ohm-cm Metric	1.00e+12 ohm-cm English	IEC 60093 Comments
Dielectric Constant	3.3 @Frequency 1.00e+6 Hz	3.3 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm @Thickness 1.00 mm	889 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250

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