

Unitika A1030GFL45 PA6, 45% Glass Fiber Reinforced, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-A1030GFL45-PA6-45-Glass-Fiber-Reinforced-Dry.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Water Absorption	1.0 % @Time 86400 sec	1.0 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm @Thickness 3.20 mm	0.0010 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0030 cm/cm @Thickness 3.20 mm	0.0030 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ISO 2039
Tensile Strength at Break	210 MPa	30500 psi	ISO 527-1/-2
Elongation at Break	2.9 %	2.9 %	ISO 527-1/-2
Tensile Modulus	13.6 GPa	1970 ksi	ISO 527-1/-2
Flexural Strength	325 MPa	47100 psi	ISO 178
Flexural Modulus	12.4 GPa	1800 ksi	ISO 178
Charpy Impact Unnotched	7.90 J/cm ²	37.6 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	23.0 μm/m-°C	12.8 μin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	217 °C	423 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	399 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.860 mm	@Thickness 0.0339 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.3	3.3	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	42.1 kV/mm	1070 kV/in	IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.022	0.022	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	550 V	550 V	IEC 60112

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