

Unitika A1030GFL PA6, 30% Glass Fiber Reinforced, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-A1030GFL-PA6-30-Glass-Fiber-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Water Absorption	1.3 % @Time 86400 sec	1.3 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 3.20 mm	0.0020 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm @Thickness 3.20 mm	0.0070 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ISO 2039
Tensile Strength at Break	110 MPa	16000 psi	ISO 527-1/-2
Elongation at Break	5.3 %	5.3 %	ISO 527-1/-2
Tensile Modulus	6.00 GPa	870 ksi	ISO 527-1/-2
Flexural Strength	160 MPa	23200 psi	ISO 178
Flexural Modulus	5.00 GPa	725 ksi	ISO 178
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	1.90 J/cm ²	9.04 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	31.0 μm/m-°C	17.2 μin/in-°F	ISO 11359-2
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.00e+11 ohm-cm	7.00e+11 ohm-cm	IEC 60093
Dielectric Constant	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	40.2 kV/mm @Thickness 1.00 mm	1020 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.12 @Frequency 1.00e+6 Hz	0.12 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	550 V	550 V	IEC 60112

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