

Unitika A1030GFL PA6, 30% Glass Fiber Reinforced, Dry

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-Dry.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	120	120	ISO 2039
Tensile Strength at Break	170 MPa	24700 psi	ISO 527-1/-2
Elongation at Break	3.1 %	3.1 %	ISO 527-1/-2
Tensile Modulus	9.60 GPa	1390 ksi	ISO 527-1/-2
Flexural Strength	250 MPa	36300 psi	ISO 178
Flexural Modulus	8.20 GPa	1190 ksi	ISO 178
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	1.10 J/cm ²	5.23 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
Deflection Temperature at 0.46 MPa (66 psi)	217 °C	423 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	203 °C	397 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.750 mm	@Thickness 0.0295 in	

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	255 - 265 °C	491 - 509 °F	
Middle Barrel Temperature	250 - 260 °C	482 - 500 °F	
Front Barrel Temperature	230 - 240 °C	446 - 464 °F	
Nozzle Temperature	255 - 265 °C	491 - 509 °F	
Mold Temperature	80.0 - 100 °C	176 - 212 °F	
Back Pressure	3.00 - 5.00 MPa	435 - 725 psi	

Descriptive Properties	Value	Comments
Primary Pressure	80-90 MPa	
Secondary Pressure	60-80 MPa	

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