

Unitika A1022GFL60 PA6, 60% Glass Fiber Reinforced, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 60% Glass Fiber Filled

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-A1022GFL60-PA6-60-Glass-Fiber-Reinforced-Dry.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ISO 1183
Water Absorption	0.70 % @Time 86400 sec	0.70 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.1 %	1.1 %	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
Tensile Strength at Break	240 MPa	34800 psi	ISO 527-1/-2
Elongation at Break	2.6 %	2.6 %	ISO 527-1/-2
Tensile Modulus	17.5 GPa	2540 ksi	ISO 527-1/-2
Flexural Strength	380 MPa	55100 psi	ISO 178
Flexural Modulus	16.8 GPa	2440 ksi	ISO 178
Charpy Impact Unnotched	8.00 J/cm ²	38.1 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	22.0 µm/m-°C	12.2 µin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	218 °C	424 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	214 °C	417 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	IEC 60093
Dielectric Strength	42.1 kV/mm @Thickness 1.00 mm	1070 kV/in @Thickness 0.0394 in	IEC 60243-1

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