Unitika A1022GFL15 PA6, 15% Glass Fiber Reinforced, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Unitika-A1022GFL15-PA6-15-Glass-Fiber-Reinforced-Dry.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in³	ISO 1183
Water Absorption	1.5 % @Time 86400 sec	1.5 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.4 %	2.4 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ISO 2039
Tensile Strength at Break	120 MPa	17400 psi	ISO 527-1/-2
Elongation at Break	2.7 %	2.7 %	ISO 527-1/-2
Tensile Modulus	5.60 GPa	812 ksi	ISO 527-1/-2
Flexural Strength	175 MPa	25400 psi	ISO 178
Flexural Modulus	5.00 GPa	725 ksi	ISO 178
Charpy Impact Unnotched	2.30 J/cm²	10.9 ft-lb/in²	ISO 179-1
Charpy Impact, Notched	0.700 J/cm²	3.33 ft-lb/in²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	42.0 µm/m-°C	23.3 µin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	214 °C	417 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °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 @Frequency 1.00e+6 Hz	3.3 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	39.0 kV/mm @Thickness 1.00 mm	991 kV/in @Thickness 0.0394 in	IEC 60243-1

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