

Unitika A1022GFL15 PA6, 15% Glass Fiber Reinforced, Conditioned

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-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	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	103	103	ISO 2039
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527-1/-2
Elongation at Break	4.6 %	4.6 %	ISO 527-1/-2
Tensile Modulus	3.00 GPa	435 ksi	ISO 527-1/-2
Flexural Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
Charpy Impact Unnotched	3.30 J/cm ²	15.7 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	42.0 μm/m-°C	23.3 μin/in-°F	ISO 11359-2
Flammability, UL94	HB @Thickness 0.860 mm	HB @Thickness 0.0339 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+11 ohm-cm	8.00e+11 ohm-cm	IEC 60093
Dielectric Strength	36.0 kV/mm @Thickness 1.00 mm	914 kV/in @Thickness 0.0394 in	IEC 60243-1

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