

Gromax BFG30-B103N1 Nylon 6 33% Glass Filled (Dry)

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

Material Notes:

Information provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-BFG30-B103N1-Nylon-6-33-Glass-Filled-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ISO 1183
Moisture Absorption	0.860 %	0.860 %	ISO 62
Maximum Moisture Content	0.10	0.10	Karl Fischer
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Temperature 80.0 Â°C	0.0030 in/in @Temperature 176 Â°F	60x60x2 mm; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 cm/cm @Temperature 80.0 Â°C	0.0060 in/in @Temperature 176 Â°F	60x60x2 mm; ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	94	94	[N/mm²]; ISO 7619
Tensile Strength	182 MPa	26500 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	3.3 %	3.3 %	50 mm/min; ISO 527
Tensile Modulus	9.90 GPa	1440 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	270 MPa	39200 psi	5 mm/min; ISO 178
Flexural Modulus	8.43 GPa	1220 ksi	5 mm/min; ISO 178
Izod Impact, Notched (ISO)	16.3 kJ/mÂ²	7.76 ft-lb/inÂ²	ISO 180-1A
Charpy Impact Unnotched	9.00 J/cmÂ² @Temperature 23.0 Â°C	42.8 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eU
Charpy Impact, Notched	1.64 J/cmÂ² @Temperature 23.0 Â°C	7.80 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1A

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	226 Â°C Metric	428 Â°F English	10Â°C/min: ISO 11357-1,-3 Comments
Deflection Temperature at 0.46 MPa (66 psi)	226 Â°C	439 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	216 Â°C	421 Â°F	ISO 75-1,-2
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 Â°F	ISO 294
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	ISO 294
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2.00 - 6.00 hour	2.00 - 6.00 hour	

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