

Gromax BFG45-B100N1 Nylon 6 46% Glass Filled (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

Information provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-BFG45-B100N1-Nylon-6-46-Glass-Filled-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	ISO 1183
Moisture Absorption	0.800 %	0.800 %	ISO 62
Maximum Moisture Content	0.10	0.10	Karl Fischer
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Temperature 80.0 Â°C	0.0020 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	96	96	[N/mm<sup>2]; ISO 7619
Tensile Strength	206 MPa	29900 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	13.0 GPa	1890 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	310 MPa	45000 psi	5 mm/min; ISO 178
Flexural Modulus	1.08 GPa	156 ksi	5 mm/min; ISO 178
Izod Impact, Notched (ISO)	16.7 kJ/mÂ²	7.95 ft-lb/inÂ²	ISO 180-1A
Charpy Impact Unnotched	9.20 J/cmÂ² @Temperature 23.0 Â°C	43.8 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eU
Charpy Impact, Notched	1.72 J/cmÂ² @Temperature 23.0 Â°C	8.18 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	280 - 300 Â°C	536 - 572 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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