

Gromax BFG30-AH00B3 Nylon 6 30% 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-AH00B3-Nylon-6-30-Glass-Filled-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ISO 1183
Moisture Absorption	0.900 %	0.900 %	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	0.0070 cm/cm @Temperature 80.0 Â°C	0.0070 in/in @Temperature 176 Â°F	60x60x2 mm; ISO 294-4
Melt Flow	51 g/10 min @Load 5.00 kg, Temperature 275 Â°C	51 g/10 min @Load 11.0 lb, Temperature 527 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	91	91	[N/mm<sup>2]; ISO 7619
Tensile Strength	168.2 MPa	24390 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	2.8 %	2.8 %	50 mm/min; ISO 527
Tensile Modulus	9.55 GPa	1390 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	273.4 MPa	39650 psi	5 mm/min; ISO 178
Flexural Modulus	8.34 GPa	1210 ksi	5 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.7 kJ/mÂ²	5.09 ft-lb/inÂ²	ISO 180-1A
Charpy Impact Unnotched	7.40 J/cmÂ² @Temperature 23.0 Â°C	35.2 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eU
Charpy Impact, Notched	1.08 J/cmÂ² @Temperature 23.0	5.14 ft-lb/inÂ²	ISO 179-1A

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1,-3
Deflection Temperature at 0.46 MPa (66 psi)	215.4 °C	419.7 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	203.1 °C	397.6 °F	ISO 75-1,-2
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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

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