

Gromax BTG25-FN09N1 Nylon 6 25% 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-BTG25-FN09N1-Nylon-6-25-Glass-Filled-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 1183
Moisture Absorption	0.950 %	0.950 %	ISO 62
Maximum Moisture Content	0.10	0.10	Karl Fischer
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Temperature 80.0 Â°C	0.0040 in/in @Temperature 176 Â°F	60x60x2 mm; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Temperature 80.0 Â°C	0.0080 in/in @Temperature 176 Â°F	60x60x2 mm; ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	71	71	[N/mm²]; ISO 7619
Tensile Strength	63.7 MPa	9250 psi	50 mm/min; ISO 527
Elongation at Break	6.5 %	6.5 %	50 mm/min; ISO 527
Flexural Strength	80.0 MPa	11600 psi	5 mm/min; ISO 178
Flexural Modulus	2.16 GPa	313 ksi	5 mm/min; ISO 178
Izod Impact, Notched (ISO)	28.0 kJ/mÂ²	13.3 ft-lb/inÂ²	ISO 180-1A
Charpy Impact Unnotched	8.70 J/cmÂ² @Temperature 23.0 Â°C	41.4 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eU
Charpy Impact, Notched	1.60 J/cmÂ² @Temperature -30.0 Â°C	7.61 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179-1A
	3.00 J/cmÂ² @Temperature 23.0 Â°C	14.3 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1A

Thermal Properties	Metric	English	Comments
Melting Point	220 Â°C	428 Â°F	10Â°C/min; ISO 11357-1,-3
Deflection Temperature at 1.8 MPa (264 psi)	120 Â°C	248 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 - 287 Â°C	518 - 549 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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