

Gromax CFG45-RN13N1 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-CFG45-RN13N1-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	0.760 %	0.760 %	ISO 62
Maximum Moisture Content	0.10	0.10	Karl Fischer
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Temperature 80.0 °C	0.0020 in/in @Temperature 176 °F	60x60x2 mm; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 cm/cm @Temperature 80.0 °C	0.0060 in/in @Temperature 176 °F	60x60x2 mm; ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	[N/mm ²]; ISO 7619
Tensile Strength	196 MPa	28400 psi	50 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	50 mm/min; ISO 527
Flexural Strength	290 MPa	42100 psi	5 mm/min; ISO 178
Flexural Modulus	11.4 GPa	1650 ksi	5 mm/min; ISO 178
Izod Impact, Notched (ISO)	17.7 kJ/m ²	8.42 ft-lb/in ²	ISO 180-1A
Charpy Impact Unnotched	9.60 J/cm ² @Temperature 23.0 °C	45.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1eU
Charpy Impact, Notched	1.88 J/cm ² @Temperature 23.0 °C	8.95 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	238 °C	460 °F	ISO 75-1,-2
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	266 - 280 °C	511 - 536 °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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