

Gromax BPR20-N1 Nylon 6, Flame Retardant (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced, Flame Retardant

Material Notes:

Information provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-BPR20-N1-Nylon-6-Flame-Retardant-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ISO 1183
Moisture Absorption	1.30 %	1.30 %	ISO 62
Maximum Moisture Content	0.10	0.10	Karl Fischer
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	60x60x2 mm; ISO 294-4
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	60x60x2 mm; ISO 294-4
Melt Flow	134 g/10 min @Load 5.00 kg, Temperature 275 Â°C	134 g/10 min @Load 11.0 lb, Temperature 527 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	[N/mm<sup>2]; ISO 7619
Tensile Strength	68.6 MPa	9960 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	15 %	15 %	50 mm/min; ISO 527
Flexural Strength	360 MPa	52200 psi	5 mm/min; ISO 178
Flexural Modulus	1.26 GPa	182 ksi	5 mm/min; ISO 178
Izod Impact, Notched (ISO)	3.50 kJ/mÂ²	1.67 ft-lb/inÂ²	ISO 180-1A
Charpy Impact Unnotched	0.400 J/cmÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179-1eU
Charpy Impact, Notched	5.50 J/cmÂ² @Temperature 23.0 Â°C	26.2 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

Thermal Properties Deflection Temperature at 1.8 MPa (100 psi)	Metric 75.0 Â°C	English 167 Â°F	Comments ISO 75-1-2
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	235 - 260 Â°C	455 - 500 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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