

Gromax BBG30-AN00N1 Nylon 6, Flame Retardant (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Information provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-BBG30-AN00N1-Nylon-6-Flame-Retardant-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 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	0.0030 in/in	60x60x2 mm; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	60x60x2 mm; ISO 294-4
Melt Flow	64 g/10 min @Load 5.00 kg, Temperature 275 Å°C	64 g/10 min @Load 11.0 lb, Temperature 527 Å°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	92	92	[N/mm²]; ISO 7619
Tensile Strength	157 MPa	22800 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	2.5 %	2.5 %	50 mm/min; ISO 527
Flexural Strength	90.0 MPa	13100 psi	5 mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	5 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/mÅ²	3.81 ft-lb/inÅ²	ISO 180-1A
Charpy Impact Unnotched	0.810 J/cmÅ² @Temperature 23.0 Å°C	3.85 ft-lb/inÅ² @Temperature 73.4 Å°F	ISO 179-1eU
Charpy Impact, Notched	6.00 J/cmÅ² @Temperature 23.0 Å°C	28.6 ft-lb/inÅ² @Temperature 73.4 Å°F	ISO 179-1A

Thermal Properties	Metric	English	Comments
Melting Point	220 Å°C	428 Å°F	10Å°C/min; ISO 11357-1,-3

Thermal Properties <small>Deflection Temperature at 1.8 MPa (1.84 psi)</small>	Metric <small>215 Â°C</small>	English <small>419 Â°F</small>	Comments <small>ISO 75-1-2</small>
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 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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