

PolyOne Bergamid™ B70 G/GK30 TM-Y UV NC Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Bergamid-B70-GGK30-TM-Y-UV-NC-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	±0.03; ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm @Thickness 4.00 mm, Temperature 23.0 °C	0.0040 - 0.0080 in/in @Thickness 0.157 in, Temperature 73.4 °F	Injection Molded, Bergmann Method; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	90.0 MPa @Thickness 4.00 mm, Temperature 23.0 °C	13100 psi @Thickness 0.157 in, Temperature 73.4 °F	5.0 mm/min; ISO 527
Elongation at Break	3.0 % @Thickness 4.00 mm, Temperature 23.0 °C	3.0 % @Thickness 0.157 in, Temperature 73.4 °F	5.0 mm/min; ISO 527
Tensile Modulus	5.40 GPa @Thickness 4.00 mm, Temperature 23.0 °C	783 ksi @Thickness 0.157 in, Temperature 73.4 °F	Injection Molded; ISO 527-2/1
Flexural Strength	115 MPa @Temperature 23.0 °C	16700 psi @Temperature 73.4 °F	ISO 178
Flexural Modulus	4.10 GPa @Temperature 23.0 °C	595 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact Unnotched	5.50 J/cm ² @Temperature -30.0 °C	26.2 ft-lb/in ² @Temperature -22.0 °F	Injection Molded; ISO 179
	6.50 J/cm ² @Temperature 23.0 °C	30.9 ft-lb/in ² @Temperature 73.4 °F	Injection Molded; ISO 179
Charpy Impact, Notched	0.650 J/cm ² @Temperature -30.0 °C	3.09 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	205 °C @Thickness 4.00 mm	401 °F @Thickness 0.157 in	Unannealed; ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	190 °C @Thickness 4.00 mm	374 °F @Thickness 0.157 in	Unannealed; ISO 75-2
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	ALL; Internal Method

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 °C	464 - 536 °F	
Mold Temperature	65.0 - 85.0 °C	149 - 185 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Features	Good Dimensional Stability	
	Good Impact Resistance	
	Good Stiffness	
	Good UV Resistance	
Filler / Reinforcement	Glass BeadGlass Fiber, 30% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Processing Method	Injection Molding	
Regional Availability	Europe	

Descriptive Properties	Value	Comments
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RoHS Compliance

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