

PolyOne Bergamid™ A70 G35 H U BK SO Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Bergamid-A70-G35-H-U-BK-SO-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm @Thickness 4.00 mm, Temperature 23.0 °C	0.0030 - 0.0050 in/in @Thickness 0.157 in, Temperature 73.4 °F	Flow Mold Shrinkage on Tensile Bar, flow Bergmann Method; ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa @Thickness 4.00 mm, Temperature 23.0 °C	18900 psi @Thickness 0.157 in, Temperature 73.4 °F	ISO 527-2
Elongation at Break	2.0 % @Thickness 4.00 mm, Temperature 23.0 °C	2.0 % @Thickness 0.157 in, Temperature 73.4 °F	ISO 527-2
Tensile Modulus	12.0 GPa @Thickness 4.00 mm, Temperature 23.0 °C	1740 ksi @Thickness 0.157 in, Temperature 73.4 °F	ISO 527-2
Charpy Impact Unnotched	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	5.00 J/cm ² @Temperature 23.0 °C	23.8 ft-lb/in ² @Temperature 73.4 °F	Injection Molded; ISO 179
Charpy Impact, Notched	0.550 J/cm ² @Temperature -30.0 °C	2.62 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	0.750 J/cm ² @Temperature 23.0 °C	3.57 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	236 °C	457 °F	Annealed; ISO 75-2/A
	V-0	V-0	

Flammability, UL 94 Thermal Properties	Metric @ Thickness 0.800 mm	English @ Thickness 0.0315 in	ALL: UL 94 Comments
	V-0	V-0	ALL; UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	ALL; UL 94
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	960 °C	1760 °F	Flammability Index; IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 °C	1760 °F	Flammability Index; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	
Mold Temperature	65.0 - 85.0 °C	149 - 185 °F	
Drying Temperature	80.0 - 90.0 °C	176 - 194 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Features	Flame Retardant	
Filler / Reinforcement	Glass Fiber Reinforcement, 35% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Processing Method	Injection Molding	
Regional Availability	Europe	

RoHS Compliance Descriptive Properties	RoHS Compliant Value	Comments
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