

PolyOne Bergamid™ A70 GK30 H 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-GK30-H-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	±0.03 g/cm ³ ; DIN 53479
Ash	30 %	30 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 - 90.0 MPa @Thickness 4.00 mm, Temperature 23.0 °C	8700 - 13100 psi @Thickness 0.157 in, Temperature 73.4 °F	depending on color; ISO 527-2/5
Elongation at Yield	2.5 - 4.0 % @Thickness 4.00 mm, Temperature 23.0 °C	2.5 - 4.0 % @Thickness 0.157 in, Temperature 73.4 °F	depending on color; ISO 527-2/5
Tensile Modulus	4.00 - 4.80 GPa @Thickness 4.00 mm, Temperature 23.0 °C	580 - 696 ksi @Thickness 0.157 in, Temperature 73.4 °F	depending on color; ISO 527-2/1
Charpy Impact Unnotched	0.250 - 0.420 J/cm ² @Temperature 23.0 °C	1.19 - 2.00 ft-lb/in ² @Temperature 73.4 °F	depending on color; ISO 179/1eU
Charpy Impact, Notched	2.50 - 4.00 J/cm ² @Temperature 23.0 °C	11.9 - 19.0 ft-lb/in ² @Temperature 73.4 °F	depending on color; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	261 °C	502 °F	ISO 3146
Maximum Service Temperature, Air	110 °C	230 °F	Continuous (GTP 50% Tensile); IEC 60216
	220 °C	428 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	Unannealed; ISO 75-2/A
	HB	HB	

Flammability UL 94 Thermal Properties	Metric @Thickness 0.800 mm	English @Thickness 0.0315 in	UL 94 Comments
	HB	HB	UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 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
Dielectric Strength	60.0 kV/mm	1520 kV/in	IEC 60243-1
Comparative Tracking Index	500 V	500 V	Solution A; IEC 60112

Descriptive Properties	Value	Comments
Features	Heat Stabilized	
Filler / Reinforcement	Glass Bead, 30% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
K-Value	74.0 to 78.0	No Standard; 96% H2SO4
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
RoHS Compliance	RoHS Compliant	

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