

PolyOne Bergamid™ A70 G35 UF 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-UF-SO-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in³	±0.03 g/cm³; DIN 53479
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Ash	>= 35 %	>= 35 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-2/5
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Elongation at Break	2.0 %	2.0 %	ISO 527-2/5
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Tensile Modulus	12.0 GPa	1740 ksi	ISO 527-2/1
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Charpy Impact Unnotched	5.00 J/cm²	23.8 ft-lb/in²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.750 J/cm²	3.57 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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 1.8 MPa (264 psi)	236 °C	457 °F	Unannealed; ISO 75-2/A
Flammability, UL94	V-0	V-0	ALL; UL 94

Thermal Properties	@Thickness 0.800 mm Metric	@Thickness 0.0315 in English	Comments
	V-0	V-0	UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	960 °C	1760 °F	0.8 mm wire; Ignition Temperature; IEC 60695-2-13
	@Thickness 0.800 - 3.00 mm	@Thickness 0.0315 - 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	Solution A; IEC 60112

Descriptive Properties	Value	Comments
Features	Flame Retardant	
	Halogen Free	
	Low (to None) Phosphorus Content	
Filler / Reinforcement	Glass Fiber Reinforcement, 35% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Regional Availability	Europe	
RoHS Compliance	RoHS Compliant	

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