

PolyOne Bergamid™ A70 G25 H U-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-G25-H-U-SO-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	±0.02 g/cm ³ ; DIN 53479
Ash	25 %	25 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa @Temperature 23.0 °C	23200 psi @Temperature 73.4 °F	ISO 527-2/5
Elongation at Break	3.0 % @Temperature 23.0 °C	3.0 % @Temperature 73.4 °F	ISO 527-2/5
Tensile Modulus	8.50 GPa @Temperature 23.0 °C	1230 ksi @Temperature 73.4 °F	ISO 527-2/1
Charpy Impact Unnotched	6.00 J/cm ² @Temperature -30.0 °C	28.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	6.50 J/cm ² @Temperature 23.0 °C	30.9 ft-lb/in ² @Temperature 73.4 °F	Type 1; ISO 179/1eA
Charpy Impact, Notched	0.900 J/cm ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	261 °C	502 °F	ISO 3146
Maximum Service Temperature, Air	120 °C	248 °F	Continuous (GTP 50% Tensile); IEC 60216
	220 °C	428 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	Unannealed; ISO 75-2/B

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 3.00 mm	@Thickness 0.118 in	ALL; Internal Method
Glow Wire Test	960 °C @Thickness 3.00 mm	1760 °F @Thickness 0.118 in	0.8 mm wire; Ignition Temperature; IEC 60695-2-13

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 Constant	3.5 @Frequency 1.00e+6 Hz	3.5 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 60243-1
Dissipation Factor	0.015 @Frequency 1.00e+6 Hz	0.015 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	400 V	400 V	Solution A; IEC 60112

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Features	Flame Retardant	
	Halogen Free	
	Heat Stabilized	
Filler / Reinforcement	Glass Fiber Reinforcement, 25% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
RoHS Compliance	RoHS Compliant	

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