

PolyOne Bergamid™ B700 UF 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-B700-UF-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	±0.03 g/cm ³ ; DIN 53479

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa @Temperature 23.0 °C	7980 psi @Temperature 73.4 °F	ISO 527-2/5
Elongation at Break	20 % @Temperature 23.0 °C	20 % @Temperature 73.4 °F	ISO 527-2/5
Tensile Modulus	1.50 GPa @Temperature 23.0 °C	218 ksi @Temperature 73.4 °F	ISO 527-2/1
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.630 J/cm ² @Temperature -30.0 °C	3.00 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.840 J/cm ² @Temperature 23.0 °C	4.00 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	ISO 3146
Maximum Service Temperature, Air	85.0 °C	185 °F	Continuous (GTP 50% Tensile); IEC 60216
	160 °C	320 °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)	80.0 °C	176 °F	Unannealed; ISO 75-2/A
Flammability, UL94	V-0	V-0	ALL; Internal Method

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	7.0	7.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	45.0 kV/mm	1140 kV/in	IEC 60243-1
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	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
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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