

PolyOne Bergamid™ B700 G20 H 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-G20-H-UF-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	±0.03 g/cm ³ ; DIN 53479
Ash	20 %	20 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa @Temperature 23.0 °C	13800 psi @Temperature 73.4 °F	ISO 527-2/5
Elongation at Break	2.1 % @Temperature 23.0 °C	2.1 % @Temperature 73.4 °F	ISO 527-2/5
Tensile Modulus	8.30 GPa @Temperature 23.0 °C	1200 ksi @Temperature 73.4 °F	ISO 527-2/1
Charpy Impact Unnotched	5.30 J/cm ² @Temperature 23.0 °C	25.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	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	110 °C	230 °F	Continuous (GTP 50% Tensile); IEC 60216
	190 °C	374 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	Unannealed; ISO 75-2/B
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 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

Thermal Properties	Metric	English	Comments
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
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Features	Flame Retardant	
	Halogen Free	
	Heat Stabilized	
	Low (to None) Phosphorus Content	
Filler / Reinforcement	Glass Fiber Reinforcement, 20% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
RoHS Compliance	RoHS Compliant	

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