

PolyOne Bergamid™ B650 G/Mi20 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-B650-GMi20-UF-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	±0.03 g/cm ³ ; DIN 53479
Ash	20 %	20 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa @Temperature 23.0 °C	13100 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	5.70 GPa @Temperature 23.0 °C	827 ksi @Temperature 73.4 °F	ISO 527-2/1
Charpy Impact Unnotched	7.40 J/cm ² @Temperature 23.0 °C	35.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.740 J/cm ² @Temperature 23.0 °C	3.52 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	95.0 °C	203 °F	Continuous (GTP 50% Tensile); IEC 60216
	190 °C	374 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	205 °C	401 °F	Unannealed; ISO 75-2/B
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	ALL; Internal Method
Glow Wire Test	960 °C @Thickness 3.00 mm	1760 °F @Thickness 0.118 in	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	400 V	400 V	Solution A; IEC 60112

Descriptive Properties	Value	Comments
Features	Flame Retardant	
	Halogen Free	
	Low (to None) Phosphorus Content	
Filler / Reinforcement	GlassMineral, 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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