

PolyOne Bergamid™ B700 X2 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-X2-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	±0.03 g/cm ³ ; DIN 53479

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa @Temperature 23.0 °C	7250 psi @Temperature 73.4 °F	ISO 527-2/50
Elongation at Yield	22 % @Temperature 23.0 °C	22 % @Temperature 73.4 °F	ISO 527-2/50
Tensile Modulus	1.10 GPa @Temperature 23.0 °C	160 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
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ² @Temperature -30.0 °C	5.23 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	13.0 J/cm ² @Temperature 23.0 °C	61.9 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	75.0 °C	167 °F	Continuous (GTP 50% Tensile); IEC 60216
	175 °C	347 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	170 °C	338 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa	65.0 °C	149 °F	

(264 psi) Thermal Properties	Metric	English	Unannealed; ISO 75-2/A Comments
Flammability, UL94	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	ALL; Internal Method

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 @Frequency 1.00e+6 Hz	7.0 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	60.0 kV/mm	1520 kV/in	IEC 60243-1
Dissipation Factor	0.30 @Frequency 1.00e+6 Hz	0.30 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Descriptive Properties	Value	Comments
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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