

PolyOne Bergamid™ B700 UF V2 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-V2-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	80.0 MPa @Temperature 23.0 °C	11600 psi @Temperature 73.4 °F	ISO 527-2/50
Elongation at Yield	4.0 % @Temperature 23.0 °C	4.0 % @Temperature 73.4 °F	ISO 527-2/50
Tensile Modulus	3.00 GPa @Temperature 23.0 °C	435 ksi @Temperature 73.4 °F	ISO 527-2/1
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.500 J/cm ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	ISO 179

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	

Thermal Properties	Metric	English	Unannealed; ISO 75-2/A Comments
Flammability, UL94	V-2	V-2	ALL; UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	UL 94
	V-2	V-2	UL 94
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	960 °C	1760 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 °C	1760 °F	
	@Thickness 1.60 mm	@Thickness 0.0630 in	Flammability Index; IEC 60695-2-12
	960 °C	1760 °F	Flammability Index; IEC 60695-2-12
	@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

Descriptive Properties	Value	Comments
Additive	Flame Retardant	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
RoHS Compliance	RoHS Compliant	

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