

PolyOne Bergamid™ A700 G20 UF Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Bergamid-A700-G20-UF-Polyamide-66-Nylon-66.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	110 MPa @Temperature 23.0 °C	16000 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	8.50 GPa @Temperature 23.0 °C	1230 ksi @Temperature 73.4 °F	ISO 527-2/1
Charpy Impact Unnotched	9.90 J/cm ² @Temperature 23.0 °C	47.1 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.30 J/cm ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	261 °C	502 °F	ISO 3146
Maximum Service Temperature, Air	110 °C	230 °F	Continuous (GTP 50% Tensile); IEC 60216
	220 °C	428 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Unannealed; ISO 75-2/A
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	ALL; Internal Method

Thermal Properties	969 °C Metric	1780 °F English	Comments UL94 V-0; Ignition Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
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	
Filler / Reinforcement	Glass Fiber Reinforcement, 20% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
RoHS Compliance	RoHS Compliant	

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