

PolyOne Bergamid™ A700 G20 U-SO 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-U-SO-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in³	±0.02 g/cm³; DIN 53479
Ash	20 %	20 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	ISO 527-2/5
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	3.0 %	3.0 %	ISO 527-2/5
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	7.50 GPa	1090 ksi	ISO 527-2/1
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.50 J/cm²	21.4 ft-lb/in²	Type 1; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.00 J/cm²	28.6 ft-lb/in²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.600 J/cm²	2.86 ft-lb/in²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.700 J/cm²	3.33 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	261 °C	502 °F	ISO 3146
Maximum Service Temperature, Air	120 °C	248 °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

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 3.00 mm	@Thickness 0.118 in	ALL; Internal Method
Glow Wire Test	775 °C	1430 °F	Ignition Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 °C	1760 °F	Flammability Index; IEC 60695-2-12
	@Thickness 0.800 - 3.00 mm	@Thickness 0.0315 - 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	3.5	3.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 60243-1
Dissipation Factor	0.015	0.015	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	400 V	400 V	Solution A; IEC 60112

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Features	Flame Retardant	
	Halogen Free	
	Heat Stabilized	
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	

Descriptive Properties	Value	Comments
RoHS Compliance	RoHS Compliant	

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