

PolyOne Bergamid™ AB700 UF SO Polyamide 66/6 Copolymer (Nylon 66/6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Bergamid-AB700-UF-SO-Polyamide-666-Copolymer-Nylon-666.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	±0.02 g/cm ³ ; DIN 53479

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa @Temperature 23.0 °C	10900 psi @Temperature 73.4 °F	ISO 527-2/5
Elongation at Break	5.5 % @Temperature 23.0 °C	5.5 % @Temperature 73.4 °F	ISO 527-2/5
Tensile Modulus	4.00 GPa @Temperature 23.0 °C	580 ksi @Temperature 73.4 °F	ISO 527-2/1
Charpy Impact Unnotched	6.40 J/cm ² @Temperature -30.0 °C	30.5 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.240 J/cm ² @Temperature -30.0 °C	1.14 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	243 °C	469 °F	ISO 3146
Maximum Service Temperature, Air	115 °C	239 °F	Continuous (GTP 50% Tensile); IEC 60216
	200 °C	392 °F	Short Time; IEC 60216
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa	80.0 °C	176 °F	

(264 psi) Thermal Properties	Metric	English	Unannealed; ISO 75-2/A Comments
Flammability, UL94	V-0	V-0	ALL; Internal Method
	@Thickness 0.400 mm	@Thickness 0.0157 in	
Glow Wire Test	725 °C	1340 °F	uncolored material; Ignition Temperature; IEC 60695-2-13
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 °C	1760 °F	Flammability Index; uncolored material; IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 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
Dielectric Strength	45.0 kV/mm	1140 kV/in	IEC 60243-1
Dissipation Factor	0.30	0.30	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Features	Flame Retardant	
	Good Flow	
	Halogen Free	
	Heat Stabilized	
	Low (to None) Phosphorus Content	
Forms	Pellets	
Generic Material	Nylon 66/6	
Generic Name	Polyamide 66/6 Copolymer (Nylon 66/6)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
RoHS Compliance	RoHS Compliant	

Descriptive Properties	Value	Comments
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