

PolyOne Bergamid™ AB700 UF 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-Polyamide-666-Copolymer-Nylon-666.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in³	±0.03 g/cm³; DIN 53479

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa @Temperature 23.0 °C	7250 psi @Temperature 73.4 °F	ISO 527-2/5
Elongation at Break	20 % @Temperature 23.0 °C	20 % @Temperature 73.4 °F	ISO 527-2/5
Tensile Modulus	1.60 GPa @Temperature 23.0 °C	232 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
Charpy Impact, Notched	0.300 J/cm² @Temperature 23.0 °C	1.43 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	243 °C	469 °F	ISO 3146
Maximum Service Temperature, Air	80.0 °C	176 °F	Continuous (GTP 50% Tensile); IEC 60216
	180 °C	356 °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 (264 psi)	80.0 °C	176 °F	Unannealed; ISO 75-2/A
Flammability, UL94	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	ALL; Internal Method
Glow Wire Test	960 °C	1760 °F	0.4 mm wire; Ignition Temperature; IEC 60695-2-13

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
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	45.0 kV/mm	1140 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
Features	Flame Retardant	
	Halogen Free	
	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	

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