

PolyOne Bergamid™ A700 BK VN4255 LS 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-BK-VN4255-LS-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	±0.02 g/cm ³ ; DIN 53479
Water Absorption	2.8 %	2.8 %	23C/50RH; ISO 62
Water Absorption at Saturation	8.5 %	8.5 %	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa @Temperature 23.0 °C	11600 psi @Temperature 73.4 °F	dry as moulded; ISO 527-2/50
Elongation at Yield	4.5 % @Temperature 23.0 °C	4.5 % @Temperature 73.4 °F	dry as moulded; ISO 527-2/50
Tensile Modulus	3.20 GPa @Temperature 23.0 °C	464 ksi @Temperature 73.4 °F	dry as moulded; ISO 527-2/1
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.600 J/cm ² @Temperature 23.0 °C	2.86 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	90.0 °C	194 °F	Continuous (GTP 50% Tensile); IEC 60216
	200 °C	392 °F	Short Time; IEC 60216

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (69 psi)			
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	Unannealed; ISO 75-2/A
Flammability, UL94	V-2	V-2	ALL; Internal Method
	@Thickness 0.700 mm	@Thickness 0.0276 in	
Glow Wire Test	675 °C	1250 °F	Ignition Temperature; IEC 60695-2-13
	@Thickness 0.800 - 3.00 mm	@Thickness 0.0315 - 0.118 in	
	>= 800 °C	>= 1470 °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+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	5.0	5.0	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	0.20	0.20	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
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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