



Bergamid™ A700 blue VN4817CF

Polyamide 66

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.13 g/cm ³	1.13 g/cm ³	DIN 53479
Water Absorption (Saturation, 73°F (23°C))	8.5 %	8.5 %	ISO 62
Water Absorption Equilibrium, 73°F (23°C), 50% RH	2.8 %	2.8 %	ISO 62
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ³ (73°F (23°C))	464000 psi	3200 MPa	ISO 527-2/1
Tensile Stress ³ (Yield, 73°F (23°C))	11600 psi	80.0 MPa	ISO 527-2/50
Tensile Strain ³ (Yield, 73°F (23°C))	4.5 %	4.5 %	ISO 527-2/50
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	1.9 ft·lb/in ²	4.0 kJ/m ²	
73°F (23°C)	2.9 ft·lb/in ²	6.0 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	428 °F	220 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	
Maximum Use Temperature			IEC 60216
-- ⁴	194 °F	90 °C	
Short Time	392 °F	200 °C	
Melting Temperature (DSC)	502 °F	261 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+10 ohms	1.0E+10 ohms	IEC 60093
Volume Resistivity	1.0E+12 ohms·cm	1.0E+12 ohms·cm	IEC 60093
Electric Strength	2000 V/mil	80 kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	5.00	5.00	IEC 60250
Dissipation Factor (1 MHz)	0.20	0.20	IEC 60250
Comparative Tracking Index (Solution A)	600 V	600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.028 in (0.70 mm), ALL)	V-2	V-2	Internal Method
Glow Wire Flammability Index			IEC 60695-2-12
0.03 to 0.12 in (0.8 to 3.0 mm)	1760 °F	960 °C	

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Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Glow Wire Ignition Temperature 0.03 to 0.12 in (0.8 to 3.0 mm)	1250 °F	675 °C	IEC 60695-2-13

Notes¹ Typical values are not to be construed as specifications.² ±0.02 g/cm³³ dry as moulded⁴ Continuous (GTP 50% Tensile)**CONTACT INFORMATION****Americas**United States - Avon Lake
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