

Bergamid™ AB70 H UF grey 70

Polyamide 66/6 Copolymer

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
Features	• Flame Retardant	• Halogen Free	• Low (to None) Phosphorus Content
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.19 g/cm ³	1.19 g/cm ³	DIN 53479
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	479000 psi	3300 MPa	ISO 527-1/1
Tensile Stress (Break, 73°F (23°C))	10900 psi	75.0 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	> 3.5 %	> 3.5 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.2 ft·lb/in ²	2.5 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	33 ft·lb/in ²	70 kJ/m ²	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	374 °F	190 °C	ISO 75-2/B
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	ISO 75-2/A
Maximum Use Temperature -- ³	176 °F	80 °C	IEC 60216
Short Time	356 °F	180 °C	
Melting Temperature (DSC)	469 °F	243 °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
Relative Permittivity (1 MHz)	7.00	7.00	IEC 60250
Dissipation Factor (1 MHz)	0.30	0.30	IEC 60250
Comparative Tracking Index (Solution A)	600 V	600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			Internal Method
0.02 to 0.12 in (0.4 to 3.0 mm), ALL	V-0	V-0	
Glow Wire Ignition Temperature ⁴			IEC 60695-2-13
0.03 to 0.12 in (0.8 to 3.0 mm)	1760 °F	960 °C	

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Notes

¹ Typical values are not to be construed as specifications.

² $\pm 0.03 \text{ g/cm}^3$

³ Continuous (GTP 50% Tensile)

⁴ 0.4 mm wire

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