



Bergamid™ A70 G25 H U-SO

Polyamide 66

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Flame Retardant	• Halogen Free	• Heat Stabilized
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.38 g/cm ³	1.38 g/cm ³	DIN 53479
Ash Content	25 %	25 %	ISO 3451
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	1.23E+6 psi	8500 MPa	ISO 527-2/1
Tensile Stress (Break, 73°F (23°C))	23200 psi	160 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	3.0 %	3.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	4.3 ft·lb/in ²	9.0 kJ/m ²	
73°F (23°C)	5.7 ft·lb/in ²	12 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eA
-22°F (-30°C)	29 ft·lb/in ²	60 kJ/m ²	
73°F (23°C) ³	31 ft·lb/in ²	65 kJ/m ²	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	482 °F	250 °C	
Maximum Use Temperature			IEC 60216
-- ⁴	248 °F	120 °C	
Short Time	428 °F	220 °C	
Melting Temperature (DSC)	502 °F	261 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093
Electric Strength	2000 V/mil	80 kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50	3.50	IEC 60250
Dissipation Factor (1 MHz)	0.015	0.015	IEC 60250
Comparative Tracking Index (Solution A)	400 V	400 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.12 in (3.0 mm), ALL)	V-0	V-0	Internal Method
Glow Wire Ignition Temperature ⁵			IEC 60695-2-13
0.12 in (3.0 mm)	1760 °F	960 °C	

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Notes

¹ Typical values are not to be construed as specifications.

² ±0.02 g/cm³

³ Type 1

⁴ Continuous (GTP 50% Tensile)

⁵ 0.8 mm wire

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