

Bergamid™ A70 G25 natural

Polyamide 66

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.32 g/cm ³	1.32 g/cm ³	Internal Method
Ash Content ³	25 %	25 %	ISO 3451
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	1.06E+6 psi	7300 MPa	ISO 527-2/1
Tensile Stress (Break, 73°F (23°C))	23900 psi	165 MPa	ISO 527-2
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 (73°F (23°C))	4.3 ft·lb/in ²	9.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴ 73°F (23°C)	30 ft·lb/in ²	62 kJ/m ²	ISO 179/1eA
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	482 °F	250 °C	ISO 75-2/B
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
Dissipation Factor (1 MHz)	0.015	0.015	IEC 60250
Comparative Tracking Index (Solution A)	500 V	500 V	IEC 60112

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² ±0.02 g/cm³

³ +/-2%

⁴ Type 1