



Bergamid™ B70 G/GK40 H

Polyamide 6

Key Characteristics

Product Description	
PA6 + Glass Bead + Glass Fiber	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Bead\Glass Fiber, 40% Filler by Weight
Features	• Heat Stabilized
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity ²	1.45	1.45	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	1.16E+6 psi	8000 MPa	ISO 527-2
Tensile Strength (73°F (23°C))	16000 psi	110 MPa	ISO 527
Tensile Strain (Break, 73°F (23°C))	3.0 %	3.0 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	3.3 ft·lb/in ²	7.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C), Injection Molded	24 ft·lb/in ²	50 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	428 °F	220 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	392 °F	200 °C	ISO 75-2/A
Continuous Use Temperature	194 °F	90.0 °C	IEC 216
Melting Temperature	433 °F	223 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	ASTM D257
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			Internal Method
0.031 in (0.8 mm)	HB	HB	
0.06 in (1.6 mm)	HB	HB	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Suggested Max Moisture	0.10 %	0.10 %

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Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² ±0.03

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