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/in²	7.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C), Injection Molded	24 ft·lb/in²	50 kJ/m²	
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	392 °F	200 °C	
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 %

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