

Bergamid[™] B70 GK50 H NC001 Polyamide 6

Key Characteristics

Product Description	
Heat resistant	
General	
Material Status	Commercial: Active
Regional Availability	Asia Pacific
Filler / Reinforcement	 Glass Bead, 50% Filler by Weight
Features	Medium Heat Resistance
Appearance	Natural Color
Processing Method	Injection Molding

Technical Properties¹

		-	
Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.53	1.53	ASTM D792
Molding Shrinkage - Flow	7.0E-3 to 0.013 in/in	0.70 to 1.3 %	ASTM D955
Vlechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	8700 psi	60.0 MPa	ASTM D638
Flexural Modulus ³	580000 psi	4000 MPa	ASTM D790
Flexural Strength ³	16700 psi	115 MPa	ASTM D790
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	1.4 ft·lb/in	75 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	167 °F	75.0 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+16 ohms	1.0E+16 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 (0.06 in (1.6 mm))	HB	HB	UL 94

Processing Information

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Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	176 to 212 °F	80.0 to 100 °C	
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr	
Rear Temperature	464 to 536 °F	240 to 280 °C	
Middle Temperature	464 to 536 °F	240 to 280 °C	
Front Temperature	464 to 536 °F	240 to 280 °C	
Mold Temperature	158 to 194 °F	70.0 to 90.0 °C	
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Injection Notes

Injection Pressure: MED-HIGH Hold Pressure: MED-HIGH

Screw Speed: MODERATE

Back Pressure: LOW

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Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)

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