



# Bergamid™ B70 G20 H UF

## Polyamide 6

### Key Characteristics

#### Product Description

Glass Fiber Reinforced PA6 Compound with Halogen Free Flame Retardant.

#### General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Heat Stabilized
Appearance	• Light Grey
Processing Method	• Injection Molding

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity <sup>2</sup>	1.34	1.34	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	798000 psi	5500 MPa	
Tensile Stress			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	10900 psi	75.0 MPa	
Tensile Strain			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	3.5 %	3.5 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.8 ft·lb/in <sup>2</sup>	3.8 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	17 ft·lb/in <sup>2</sup>	35 kJ/m <sup>2</sup>	ISO 179
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	> 1.0E+12 ohms	> 1.0E+12 ohms	ASTM D257
Comparative Tracking Index (CTI)	600 V	600 V	UL 746
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			Internal Method
0.03 to 0.12 in (0.8 to 3.0 mm)	V-2	V-2	
Glow Wire Flammability Index			IEC 60695-2-12
0.03 to 0.12 in (0.8 to 3.0 mm)	1760 °F	960 °C	

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Rear Temperature	464 to 518 °F	240 to 270 °C
Middle Temperature	464 to 518 °F	240 to 270 °C
Front Temperature	464 to 518 °F	240 to 270 °C
Mold Temperature	149 to 185 °F	65 to 85 °C

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**Injection Notes**

Injection Pressure: MED-HIGH  
Hold Pressure: MED-HIGH  
Screw Speed: MODERATE  
Back Pressure: LOW

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> ±0.03

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