



Bergamid™ B70 G15 Black

Polyamide 6

Key Characteristics

Product Description	
Glass fiber reinforced PA6 compound	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.21 to 1.25 g/cm ³	1.21 to 1.25 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	6.0 g/10 min	6.0 g/10 min	
260°C/2.16 kg	19 g/10 min	19 g/10 min	
Molding Shrinkage			ISO 294
Across Flow	0.80 to 1.0 %	0.80 to 1.0 %	
Flow	0.30 to 0.50 %	0.30 to 0.50 %	
Water Absorption (24 hr, 73°F (23°C))	1.2 %	1.2 %	ISO 62
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	841000 psi	5800 MPa	ISO 527-2
Tensile Stress	16700 psi	115 MPa	ISO 527-2
Tensile Strain (Break)	2.8 %	2.8 %	ISO 527-2
Flexural Modulus	653000 psi	4500 MPa	ISO 178
Flexural Stress (3.5% Strain)	21800 psi	150 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.2 ft·lb/in ²	4.6 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	12 ft·lb/in ²	26 kJ/m ²	
73°F (23°C)	17 ft·lb/in ²	36 kJ/m ²	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	410 °F	210 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	365 °F	185 °C	
Melting Temperature	> 428 °F	> 220 °C	DSC

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 248 °F	80 to 120 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	464 to 518 °F	240 to 270 °C

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Injection	Typical Value (English)	Typical Value (SI)
Mold Temperature	176 to 248 °F	80 to 120 °C

Notes

¹ Typical values are not to be construed as specifications.

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