



Bergamid™ B70 G40 Black

Polyamide 6

Key Characteristics

Product Description	
PA6 filled with 40% glass fiber.	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Features	• Good Processability • Good Stiffness • Good Strength • High Impact Resistance
Uses	• Automotive Applications • Consumer Applications • General Purpose • Industrial Applications
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.45 g/cm ³	1.45 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)	2.00 cm ³ /10min	2.00 cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.90 %	0.90 %	
Flow	0.45 %	0.45 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.60E+6 psi	11000 MPa	ISO 527-2/1
Tensile Stress (Yield)	26100 psi	180 MPa	ISO 527-2/5
Tensile Strain (Break)	> 2.0 %	> 2.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	6.2 ft·lb/in ²	13 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	38 ft·lb/in ²	80 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	
Melting Temperature	428 to 437 °F	220 to 225 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	446 to 464 °F	230 to 240 °C
Middle Temperature	455 to 473 °F	235 to 245 °C
Front Temperature	464 to 482 °F	240 to 250 °C

Injection	Typical Value (English)	Typical Value (SI)
Nozzle Temperature	482 to 500 °F	250 to 260 °C
Mold Temperature	176 °F	80 °C

Notes

¹ Typical values are not to be construed as specifications.