



Bergamid™ B70 GK/Mi30 BK

Polyamide 6

Key Characteristics

Product Description	
6016158	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Bead/Mineral, 30% Filler by Weight
Features	• Good Dimensional Stability • Good Stiffness • UV Resistant • Good Impact Resistance • Halogen Free
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	1.37	1.37	ISO 1183
Molding Shrinkage - Flow ³ 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	0.010 to 0.015 in/in	1.0 to 1.5 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	769000 psi	5300 MPa	ISO 527-2/1
Tensile Strength ⁴ 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	9860 psi	68.0 MPa	ISO 527
Tensile Elongation ⁴ Break, 73°F (23°C), 0.157 in (4.00 mm)	> 4.0 %	> 4.0 %	ISO 527
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength -22°F (-30°C)	0.95 ft·lb/in ²	2.0 kJ/m ²	ISO 179
73°F (23°C)	1.1 ft·lb/in ²	2.4 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength -22°F (-30°C), Injection Molded	12 ft·lb/in ²	25 kJ/m ²	ISO 179
73°F (23°C), Injection Molded	15 ft·lb/in ²	31 kJ/m ²	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 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 (0.13 in (3.2 mm), ALL)	HB	HB	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C

Injection	Typical Value (English)	Typical Value (SI)
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	149 to 185 °F	65 to 85 °C

Notes

¹ Typical values are not to be construed as specifications.

² ±0.03

³ Bergmann Method

⁴ 0.20 in/min (5.0 mm/min)