



Bergamid™ B70 G/GK30 TM-Y UV NC

Polyamide 6

Key Characteristics

Product Description	
6016158	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Bead\Glass Fiber, 30% Filler by Weight
Features	• Good Dimensional Stability • Good Stiffness • Good Impact Resistance • Good UV Resistance
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
Specific Gravity ²	1.30	1.30	ISO 1183
Molding Shrinkage - Flow ³ 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	4.0E-3 to 8.0E-3 in/in	0.40 to 0.80 %	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	783000 psi	5400 MPa	ISO 527-2/1
Tensile Strength ⁴ 73°F (23°C), 0.157 in (4.00 mm)	13100 psi	90.0 MPa	ISO 527
Tensile Elongation ⁴ Break, 73°F (23°C), 0.157 in (4.00 mm)	3.0 %	3.0 %	ISO 527
Flexural Modulus (73°F (23°C))	595000 psi	4100 MPa	ISO 178
Flexural Stress (73°F (23°C))	16700 psi	115 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength -22°F (-30°C)	3.1 ft·lb/in ²	6.5 kJ/m ²	ISO 179
73°F (23°C)	5.7 ft·lb/in ²	12 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength -22°F (-30°C), Injection Molded	26 ft·lb/in ²	55 kJ/m ²	ISO 179
73°F (23°C), Injection Molded	31 ft·lb/in ²	65 kJ/m ²	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.157 in (4.00 mm)	401 °F	205 °C	ISO 75-2
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.157 in (4.00 mm)	374 °F	190 °C	ISO 75-2
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257

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Electrical	Typical Value (English)	Typical Value (SI)	Test Method
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 (0.126 in (3.20 mm), ALL)	HB	HB	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80.0 °C
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	65.0 to 85.0 °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)

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