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]			ASTM D955
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 %	
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	783000 psi	5400 MPa	
Tensile Strength [4]			ISO 527
73°F (23°C), 0.157 in (4.00 mm)	13100 psi	90.0 MPa	
Tensile Elongation [4]			ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	3.0 %	3.0 %	
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/in²	6.5 kJ/m²	ISO 179
73°F (23°C)	5.7 ft·lb/in²	12 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C), Injection Molded	26 ft·lb/in²	55 kJ/m²	
73°F (23°C), Injection Molded	31 ft·lb/in²	65 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ISO 75-2
66 psi (0.45 MPa), Unannealed, 0.157 in (4.00 mm)	401 °F	205 °C	
Deflection Temperature Under Load			ISO 75-2
264 psi (1.8 MPa), Unannealed, 0.157 in (4.00 mm)	374 °F	190 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257

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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