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 Impact Resistance	• Good Stiffness • Halogen Free	• UV Resistant
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density / 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 (0.40 to 0.80)	4.0E-3 to 8.0E-3 (0.40 to 0.80)	in/in (%)	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus				ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	783000 (5400)	783000 (5400)	psi (MPa)	
Tensile Strength [4]				ISO 527
73°F (23°C), 0.157 in (4.00 mm)	13100 (90.0)	13100 (90.0)	psi (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 (4100)	595000 (4100)	psi (MPa)	ISO 178
Flexural Stress (73°F (23°C))	16700 (115)	16700 (115)	psi (MPa)	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				
-22°F (-30°C)	3.1 (6.5)	3.1 (6.5)	ft·lb/in² (kJ/m²)	ISO 179
73°F (23°C)	5.7 (12)	5.7 (12)	ft·lb/in² (kJ/m²)	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179
-22°F (-30°C), Injection Molded	26 (55)	26 (55)	ft·lb/in² (kJ/m²)	
73°F (23°C), Injection Molded	31 (65)	31 (65)	ft·lb/in² (kJ/m²)	

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2
66 psi (0.45 MPa), Unannealed, 0.157 in (4.00 mm)	401 (205)	401 (205)	°F (°C)	
Deflection Temperature Under Load				ISO 75-2
264 psi (1.8 MPa), Unannealed, 0.157 in (4.00 mm)	374 (190)	374 (190)	°F (°C)	

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+15	1.0E+15	ohms·cm	ASTM D257

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.13 in (3.2 mm), ALL)	HB	HB		Internal Method

Processing Information

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °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 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)

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