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 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	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity [2]	1.37	1.37	ISO 1183
Molding Shrinkage - Flow [3]			ASTM D955
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	0.010 to 0.015 in/in	1.0 to 1.5 %	
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	769000 psi	5300 MPa	
Tensile Strength [4]			ISO 527
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	9860 psi	68.0 MPa	
Tensile Elongation [4]			ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	> 4.0 %	> 4.0 %	
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength			
-22°F (-30°C)	0.95 ft·lb/in²	2.0 kJ/m²	ISO 179
73°F (23°C)	1.1 ft·lb/in²	2.4 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C), Injection Molded	12 ft·lb/in²	25 kJ/m²	
73°F (23°C), Injection Molded	15 ft·lb/in²	31 kJ/m²	
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)

CONTACT INFORMATION

Americas

United States - Avon Lake
+1 440 930 1000

United States - McHenry
+1 815 385 8500

Asia

China - Guangzhou
+86 20 8732 7260

China - Shenzhen
+86 755 2969 2888

China - Suzhou
+86 512 6823 24 38

China - Suzhou
+86 512 6265 2600

Hong Kong -
+852 2690 5332

Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
+49 7225 6802 0

Spain - Barbastro (Huesca)
+34 974 310 314

Beyond Polymers.

Better Business Solutions. SM

www.polyone.com

PolyOne Americas
33587 Walker Road
Avon Lake, Ohio 44012
United States
+1 440 930 1000
+1 866 POLYONE

PolyOne Asia
No. 88 Guoshoujing Road
Z.J Hi-tech Park, Pudong
Shanghai, 201203, China
+86 21 5080 1188

PolyOne Europe
6 Giällewee
+352 269 050 35