

Bergamid™ B70 G25 black Polyamide 6

Key Characteristics

Product Description		
6016178		7
General		
Material Status	Commercial: Active	
Regional Availability	Europe	
Filler / Reinforcement	 Glass Fiber, 25% Filler by Weight 	
Features	 Good Dimensional Stability Good Stiffness 	 Good Surface Finish
RoHS Compliance	 RoHS Compliant 	
Forms	Pellets	
Processing Method	Injection Molding	

Technical Properties 1

Technical Properties					
Physical	Typical Value (English)	Typical Value (SI)	Test Method		
Density / Specific Gravity ²	1.32	1.32	ISO 1183		
Molding Shrinkage ³			ISO 294-4		
Across Flow: 73°F (23°C), 0.0787 in (2.00 mm)	0.40 to 0.60 %	0.40 to 0.60 %			
Flow: 73°F (23°C), 0.0787 in (2.00 mm)	0.30 to 0.50 %	0.30 to 0.50 %			
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)	1.16E+6 psi	8000 MPa			
Tensile Strength ⁴			ISO 527-2		
73°F (23°C), 0.157 in (4.00 mm)	23200 psi	160 MPa			
Tensile Elongation ⁴			ISO 527-2		
Break, 73°F (23°C), 0.157 in (4.00 mm)	3.5 %	3.5 %			
Impact	Typical Value (English)	Typical Value (SI)	Test Method		
Charpy Notched Impact Strength			ISO 179		
-22°F (-30°C)	4.8 ft·lb/in²	10 kJ/m²			
73°F (23°C)	5.7 ft·lb/in²	12 kJ/m²			
Charpy Unnotched Impact Strength			ISO 179		
-22°F (-30°C)	36 ft·lb/in²	75 kJ/m²			
73°F (23°C)	38 ft·lb/in²	80 kJ/m²			
Thermal	Typical Value (English)	Typical Value (SI)	Test Method		
Heat Deflection Temperature			ISO 75-2/B		
66 psi (0.45 MPa), Unannealed	428 °F	220 °C			
Heat Deflection Temperature			ISO 75-2/A		
264 psi (1.8 MPa), Unannealed	410 °F	210 °C			
Continuous Use Temperature	-22.0 to 212 °F	-30.0 to 100 °C			
Melting Temperature	433 °F	223 °C	DSC		
Electrical	Typical Value (English)	Typical Value (SI)	Test Method		
Comparative Tracking Index	500 V	500 V	IEC 60112		

Copyright ©, 2019 PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. PollYONE MAKES NO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

Rev: 2018-10-09 Page: 1 of 2

Bergamid™ B70 G25 black

Technical Data Sheet

Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.031 in (0.8 mm)	НВ	НВ	
0.06 in (1.6 mm)	НВ	НВ	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)	
Drying Temperature	176 °F	80 °C	
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr	
Processing (Melt) Temp	464 to 509 °F	240 to 265 °C	
Mold Temperature	104 to 176 °F	40 to 80 °C	

Notes

- ¹ Typical values are not to be construed as specifications.
- ³ Bergmann method

CONTACT INFORMATION

United States - Avon Lake +1 440 930 1000

United States - McHenry +1 815 385 8500

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

Copyright ©, 2019 PolyOne Corporation. PolyOne makes no representations, guarantees, or warranties of any kind with respect to the Information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the Information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the Information. PolyOne makes no warranties or guarantees respecting suitability of either PolyOne's products or the Information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the Information and/or use or handling of any product. Poll-YONE MAKES NO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the Information or products reflected by the Information. This data sheet shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

Rev: 2018-10-09 Page: 2 of 2

^{4 0.20} in/min (5.0 mm/min)