



Bergamid™ B70 NATUR 20

Polyamide 6

Key Characteristics

Product Description	
Internal Code:6000204	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific • Europe
Features	• Halogen Free
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	1.13	1.13	ISO 1183
Molding Shrinkage - Flow	8.0E-3 to 0.011 in/in	0.80 to 1.1 %	ASTM D955
Viscosity Number	145 cm ³ /g	145 cm ³ /g	ISO 307
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	479000 psi	3300 MPa	ISO 527-2/1
Tensile Strength ²			ISO 527
73°F (23°C), 0.157 in (4.00 mm)	12300 psi	85.0 MPa	
Tensile Elongation ²			ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	10 to 50 %	10 to 50 %	
Flexural Modulus	406000 psi	2800 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.4 ft·lb/in ²	5.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	No Break	No Break	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	369 °F	187 °C	ISO 75-2
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	149 °F	65.0 °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
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 (0.06 in (1.5 mm), ALL)	V-2	V-2	Internal Method
Glow Wire Flammability Index 0.06 in (1.5 mm)	1760 °F	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature 0.06 in (1.5 mm)	1430 °F	775 °C	IEC 60695-2-13

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	140 to 194 °F	60 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² 2.0 in/min (50 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



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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