



Bergamid™ A70 G30 H

Polyamide 6

Key Characteristics

Product Description

Glass Fiber Reinforced PA6 Compound with Heat resistant

General

| | |
|------------------------|-------------------------------------|
| Material Status | • Commercial: Active |
| Regional Availability | • Asia Pacific |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Features | • Medium Heat Resistance |
| Appearance | • Black |
| Processing Method | • Injection Molding |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|-------------------------|--------------------|-----------------|
| Specific Gravity | 1.39 | 1.39 | ASTM D792 |
| Molding Shrinkage | 0.30 to 0.60 % | 0.30 to 0.60 % | ASTM D955 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength ² | 23200 psi | 160 MPa | ASTM D638 |
| Flexural Modulus ³ | 1.23E+6 psi | 8500 MPa | ASTM D790 |
| Flexural Strength ³ | 37700 psi | 260 MPa | ASTM D790 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| 73°F (23°C), 0.126 in (3.20 mm) | 2.2 ft-lb/in | 120 J/m | |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm) | 410 °F | 210 °C | |
| Electrical | Typical Value (English) | Typical Value (SI) | Test Method |
| Surface Resistivity | 1.0E+15 ohms | 1.0E+15 ohms | ASTM D257 |
| Flammability | Typical Value (English) | Typical Value (SI) | Test Method |
| Flame Rating (0.0630 in (1.60 mm)) | HB | HB | Internal Method |

Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 176 to 194 °F | 80.0 to 90.0 °C |
| Drying Time | 4.0 to 6.0 hr | 4.0 to 6.0 hr |
| Rear Temperature | 464 to 536 °F | 240 to 280 °C |
| Middle Temperature | 464 to 536 °F | 240 to 280 °C |
| Front Temperature | 464 to 536 °F | 240 to 280 °C |
| Mold Temperature | 149 to 185 °F | 65.0 to 85.0 °C |

Injection Notes

Injection Pressure: MED-HIGH
Hold Pressure: MED-HIGH
Screw Speed: MODERATE
Back Pressure: LOW

Copyright © 2015 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. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED 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.

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)

CONTACT INFORMATION

Americas

Mexico - Toluca
+52 722 2790200
United States - Avon Lake
+1 440 930 1000

Asia

China - Shanghai
+86 21 5080 1188
China - Shenzhen
+86 755 2969 2888
China - Suzhou
+86 512 6823 24 38
China - Tianjin
+86 22 2532 8818
India - Pune
Japan - Tokyo
+81-3-6261-3980
Singapore - Singapore
+65 6861 9325
Taiwan - Yonghe City,
+886 9396 99740, +886 2929 1849

Europe

Germany - Gaggenau
+49 7225 6802 0
Spain - Barbastro (Huesca)
+34 974 310 314
Turkey - Esenyurt - Istanbul – Turkey
+90 212 549 2256



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 ©, 2015 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. POLYONE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED 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.