



# Bergamid™ BG6000-8036 RS BK001

## Polyamide 6

### Key Characteristics

| Product Description                  |                                     |
|--------------------------------------|-------------------------------------|
| Glass fiber reinforced PA6 compound. |                                     |
| General                              |                                     |
| Material Status                      | • Commercial: Active                |
| Regional Availability                | • Asia Pacific                      |
| Filler / Reinforcement               | • Glass Fiber, 30% Filler by Weight |
| Appearance                           | • Black                             |
| Processing Method                    | • Injection Molding                 |

### Technical Properties <sup>1</sup>

| Physical                                                                                  | Typical Value (English)   | Typical Value (SI)   | Test Method     |
|-------------------------------------------------------------------------------------------|---------------------------|----------------------|-----------------|
| Density / Specific Gravity                                                                | 1.37                      | 1.37                 | ISO 1183        |
| 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                                                                          | 23200 psi                 | 160 MPa              | ISO 527-2       |
| Flexural Modulus                                                                          | 1.23E+6 psi               | 8500 MPa             | ISO 178         |
| Flexural Strength                                                                         | 34800 psi                 | 240 MPa              | ISO 178         |
| Impact                                                                                    | Typical Value (English)   | Typical Value (SI)   | Test Method     |
| Charpy Notched Impact Strength                                                            | 5.7 ft·lb/in <sup>2</sup> | 12 kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                                                                   | Typical Value (English)   | Typical Value (SI)   | Test Method     |
| Deflection Temperature Under Load<br>264 psi (1.8 MPa), Unannealed, 0.126 in<br>(3.20 mm) | 410 °F                    | 210 °C               | ASTM D648       |
| Electrical                                                                                | Typical Value (English)   | Typical Value (SI)   | Test Method     |
| Surface Resistivity                                                                       | 1.0E+14 ohms              | 1.0E+14 ohms         | ASTM D257       |
| Flammability                                                                              | Typical Value (English)   | Typical Value (SI)   | Test Method     |
| Flame Rating (0.06 in (1.6 mm))                                                           | HB                        | HB                   | Internal Method |

### Processing Information

| Injection          | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 176 to 194 °F           | 80 to 90 °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 to 85 °C        |

#### Injection Notes

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

#### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

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## 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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[www.polyone.com](http://www.polyone.com)

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**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

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