



# Bergamid™ B70 G30 RD163

## 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                          | • Red                               |
| Processing Method                   | • Injection Molding                 |

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

| Physical  | Typical Value (English) | Typical Value (SI) | Test Method     |
|---|-------------------------|--------------------|-----------------|
| Density / Specific Gravity                        | 1.38                    | 1.38               | 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 <sup>2</sup>                     | 21800 psi               | 150 MPa            | ASTM D638       |
| Flexural Modulus <sup>3</sup>                     | 1.19E+6 psi             | 8200 MPa           | ASTM D790       |
| Flexural Strength <sup>3</sup>                    | 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)                   | 2.1 ft-lb/in            | 110 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+12 ohms          | > 1.0E+12 ohms     | ASTM D257       |
| Flammability                                      | Typical Value (English) | Typical Value (SI) | Test Method     |
| Flame Rating (0.13 in (3.2 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            | 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       | 149 to 185 °F           | 65 to 85 °C        |

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

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**Notes**<sup>1</sup> Typical values are not to be construed as specifications.<sup>2</sup> 0.20 in/min (5.0 mm/min)<sup>3</sup> 0.051 in/min (1.3 mm/min)**CONTACT INFORMATION****Americas**United States - Avon Lake  
+1 440 930 1000United States - McHenry  
+1 815 385 8500**Asia**China - Guangzhou  
+86 20 8732 7260China - Shenzhen  
+86 755 2969 2888China - Suzhou  
+86 512 6823 24 38China - Suzhou  
+86 512 6265 2600Hong Kong -  
+852 2690 5332Taiwan - Yonghe City,  
+886 9396 99740, +886 2929 1849**Europe**Germany - Gaggenau  
+49 7225 6802 0Spain - Barbastro (Huesca)  
+34 974 310 314*Beyond Polymers.**Better Business Solutions.™*

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

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