



# Bergamid™ B70 G60 H BK037

## Polyamide 6

### Key Characteristics

#### Product Description

Glass Fiber Reinforced PA6 Compound with Heat Stabilized.

#### General

|                        |                                     |
|------------------------|-------------------------------------|
| Material Status        | • Commercial: Active                |
| Regional Availability  | • Asia Pacific                      |
| Filler / Reinforcement | • Glass Fiber, 60% Filler by Weight |
| Features               | • Medium Heat Resistance            |
| Appearance             | • Black                             |
| Processing Method      | • Injection Molding                 |

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

| Physical                                          | Typical Value (English) | Typical Value (SI) | Test Method     |
|---------------------------------------------------|-------------------------|--------------------|-----------------|
| Density / Specific Gravity                        | 1.72                    | 1.72               | ASTM D792       |
| Molding Shrinkage                                 | 0.10 to 0.50 %          | 0.10 to 0.50 %     | ASTM D955       |
| Mechanical                                        | Typical Value (English) | Typical Value (SI) | Test Method     |
| Tensile Strength <sup>2</sup>                     | 26100 psi               | 180 MPa            | ASTM D638       |
| Flexural Modulus <sup>3</sup>                     | 2.47E+6 psi             | 17000 MPa          | ASTM D790       |
| Flexural Strength <sup>3</sup>                    | 46400 psi               | 320 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)                   | 2.8 ft-lb/in            | 150 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) | 419 °F                  | 215 °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 (0.06 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   | 158 to 194 °F           | 70 to 90 °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)

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