



# Bergamid™ B70 G40 H NATURAL S07

## Polyamide 6

### Key Characteristics

| Product Description    |                                     |
|------------------------|-------------------------------------|
| Heat resistant         |                                     |
| General                |                                     |
| Material Status        | • Commercial: Active                |
| Regional Availability  | • Asia Pacific                      |
| Filler / Reinforcement | • Glass Fiber, 40% Filler by Weight |
| Features               | • Medium Heat Resistance            |
| Appearance             | • Natural Color                     |
| Processing Method      | • Injection Molding                 |

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

| Physical                                          | Typical Value (English) | Typical Value (SI) | Test Method     |
|---------------------------------------------------|-------------------------|--------------------|-----------------|
| Specific Gravity                                  | 1.36                    | 1.36               | ASTM D792       |
| Molding Shrinkage                                 | 0.30 to 0.50 %          | 0.30 to 0.50 %     | ASTM D955       |
| Mechanical                                        | Typical Value (English) | Typical Value (SI) | Test Method     |
| Tensile Strength <sup>2</sup>                     | 18900 psi               | 130 MPa            | ASTM D638       |
| Flexural Modulus <sup>3</sup>                     | 1.60E+6 psi             | 11000 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)                   | 2.2 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) | 374 °F                  | 190 °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 (0.06 in (1.6 mm))                   | HB                      | HB                 | Internal Method |

### Processing Information

| Injection          | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 176 to 212 °F           | 80.0 to 100 °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

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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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