



# Bergamid™ B70 TM-Y BK138

## Polyamide 6

### Key Characteristics

| Product Description                   |                                          |
|---------------------------------------|------------------------------------------|
| Impact modified, High heat resistance |                                          |
| General                               |                                          |
| Material Status                       | • Commercial: Active                     |
| Regional Availability                 | • Asia Pacific                           |
| Additive                              | • Impact Modifier                        |
| Features                              | • High Heat Resistance • Impact Modified |
| Appearance                            | • Black                                  |
| Processing Method                     | • Injection Molding                      |

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

| Physical                                          | Typical Value (English) | Typical Value (SI) | Test Method |
|---------------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                        | 1.10                    | 1.10               | ASTM D792   |
| Molding Shrinkage - Flow                          | 0.012 to 0.016 in/in    | 1.2 to 1.6 %       | ASTM D955   |
| Mechanical                                        | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Strength <sup>2</sup>                     | 8700 psi                | 60.0 MPa           | ASTM D638   |
| Flexural Modulus <sup>3</sup>                     | 297000 psi              | 2050 MPa           | ASTM D790   |
| Flexural Strength <sup>3</sup>                    | 10200 psi               | 70.0 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)                   | 6.6 ft-lb/in            | 350 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) | 149 °F                  | 65.0 °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                 | UL 94       |

### Processing Information

| Injection          | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 176 to 194 °F           | 80 to 90 °C        |
| Drying Time        | 4.0 hr                  | 4.0 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           |

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**Notes**<sup>1</sup> Typical values are not to be construed as specifications.<sup>2</sup> 2.0 in/min (50 mm/min)<sup>3</sup> 0.051 in/min (1.3 mm/min)**CONTACT INFORMATION****Americas**United States - Avon Lake  
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