



## Bergamid™ B70 G40 Natural 70

### Polyamide 6

#### Key Characteristics

| Product Description    |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| Heat resistant         |                                                                                                        |
| General                |                                                                                                        |
| Material Status        | • Commercial: Active                                                                                   |
| Regional Availability  | • Europe                                                                                               |
| Filler / Reinforcement | • Glass Fiber, 40% Filler by Weight                                                                    |
| Features               | • Good Processability<br>• Good Stiffness<br>• Good Strength<br>• High Impact Resistance               |
| Uses                   | • Automotive Applications<br>• Consumer Applications<br>• General Purpose<br>• Industrial Applications |
| Appearance             | • Natural Color                                                                                        |
| Forms                  | • Pellets                                                                                              |
| Processing Method      | • Injection Molding                                                                                    |

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

| Physical                                    | Typical Value (English)     | Typical Value (SI)          | Test Method |
|---------------------------------------------|-----------------------------|-----------------------------|-------------|
| Density                                     | 1.45 g/cm <sup>3</sup>      | 1.45 g/cm <sup>3</sup>      | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)   | 2.0 g/10 min                | 2.0 g/10 min                | ISO 1133    |
| Melt Volume-Flow Rate (MVR) (235°C/2.16 kg) | 2.00 cm <sup>3</sup> /10min | 2.00 cm <sup>3</sup> /10min | ISO 1133    |
| Mechanical                                  | Typical Value (English)     | Typical Value (SI)          | Test Method |
| Tensile Modulus                             | 1.60E+6 psi                 | 11000 MPa                   | ISO 527-2/1 |
| Tensile Stress (Yield)                      | 26100 psi                   | 180 MPa                     | ISO 527-2/5 |
| Tensile Strain (Break)                      | 3.5 %                       | 3.5 %                       | ISO 527-2/5 |
| Impact                                      | Typical Value (English)     | Typical Value (SI)          | Test Method |
| Notched Izod Impact Strength                | 9.0 ft-lb/in <sup>2</sup>   | 19 kJ/m <sup>2</sup>        | ISO 180/A   |
| Thermal                                     | Typical Value (English)     | Typical Value (SI)          |             |
| Melting Temperature                         | 428 to 437 °F               | 220 to 225 °C               |             |
| 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 °F                  | 80 °C              |
| Drying Time        | 2.0 to 4.0 hr           | 2.0 to 4.0 hr      |
| Rear Temperature   | 446 to 464 °F           | 230 to 240 °C      |
| Middle Temperature | 455 to 473 °F           | 235 to 245 °C      |
| Front Temperature  | 464 to 482 °F           | 240 to 250 °C      |
| Nozzle Temperature | 482 to 500 °F           | 250 to 260 °C      |
| Mold Temperature   | 176 °F                  | 80 °C              |

#### Notes

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