



## Bergamid™ B700 G15 H VN

### Polyamide 6

#### Key Characteristics

| Product Description                 |                                     |
|-------------------------------------|-------------------------------------|
| Glass fiber reinforced PA6 compound |                                     |
| General                             |                                     |
| Material Status                     | • Commercial: Active                |
| Regional Availability               | • Asia Pacific                      |
| Filler / Reinforcement              | • Glass Fiber, 15% Filler by Weight |
| Appearance                          | • Grey                              |
| Processing Method                   | • Injection Molding                 |

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

| Physical                                                                                  | Typical Value (English)   | Typical Value (SI)    | Test Method     |
|-------------------------------------------------------------------------------------------|---------------------------|-----------------------|-----------------|
| Specific Gravity                                                                          | 1.23                      | 1.23                  | ASTM D792       |
| Molding Shrinkage                                                                         | 0.50 to 0.90 %            | 0.50 to 0.90 %        | ASTM D955       |
| Mechanical                                                                                | Typical Value (English)   | Typical Value (SI)    | Test Method     |
| Tensile Strength <sup>2</sup>                                                             | 18100 psi                 | 125 MPa               | ISO 1183        |
| Flexural Modulus <sup>3</sup>                                                             | 725000 psi                | 5000 MPa              | ISO 178         |
| Flexural Stress <sup>3</sup>                                                              | 26100 psi                 | 180 MPa               | ISO 178         |
| Impact                                                                                    | Typical Value (English)   | Typical Value (SI)    | Test Method     |
| Charpy Notched Impact Strength                                                            | 3.3 ft·lb/in <sup>2</sup> | 7.0 kJ/m <sup>2</sup> | ISO 179         |
| Thermal                                                                                   | Typical Value (English)   | Typical Value (SI)    | Test Method     |
| Deflection Temperature Under Load<br>264 psi (1.8 MPa), Unannealed, 0.126 in<br>(3.20 mm) | 374 °F                    | 190 °C                | ASTM D648       |
| 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           | 80.0 to 90.0 °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           | 65.0 to 85.0 °C    |

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

#### 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> 0.079 in/min (2.0 mm/min)

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