



## Bergamid™ B70 G30 natural/natur Polyamide 6

### Key Characteristics

#### Product Description

Bergamid B70 G30 is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding.

#### General

|                        |                                     |
|------------------------|-------------------------------------|
| Material Status        | • Commercial: Active                |
| Regional Availability  | • Asia Pacific • Europe             |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Appearance             | • Natural Color                     |
| Forms                  | • Pellets                           |
| Processing Method      | • Injection Molding                 |

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

| Physical                                                  | Typical Value (English)   | Typical Value (SI)     | Test Method |
|-----------------------------------------------------------|---------------------------|------------------------|-------------|
| Density                                                   | 1.38 g/cm <sup>3</sup>    | 1.38 g/cm <sup>3</sup> | ISO 1183    |
| Mechanical                                                | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Tensile Modulus                                           | 1.38E+6 psi               | 9500 MPa               | ISO 527-2   |
| Tensile Strength                                          | 26100 psi                 | 180 MPa                | ISO 527     |
| Tensile Strain (Break)                                    | 3.0 %                     | 3.0 %                  | ISO 527     |
| Impact                                                    | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Charpy Notched Impact Strength (73°F (23°C))              | 5.7 ft·lb/in <sup>2</sup> | 12 kJ/m <sup>2</sup>   | ISO 179     |
| Charpy Unnotched Impact Strength 73°F (23°C)              | 38 ft·lb/in <sup>2</sup>  | 80 kJ/m <sup>2</sup>   | ISO 179     |
| Thermal                                                   | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed | 428 °F                    | 220 °C                 | ISO 75-2/B  |
| Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed | 401 °F                    | 205 °C                 | ISO 75-2/A  |
| Melting Temperature (DSC)                                 | 491 to 509 °F             | 255 to 265 °C          | ISO 3146    |
| Electrical                                                | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Surface Resistivity                                       | 1.0E+13 ohms              | 1.0E+13 ohms           | IEC 60093   |
| Volume Resistivity                                        | 1.0E+15 ohms·cm           | 1.0E+15 ohms·cm        | IEC 60093   |
| Comparative Tracking Index                                | 500 V                     | 500 V                  | IEC 60112   |
| Flammability                                              | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Flame Rating (0.13 in (3.2 mm))                           | HB                        | HB                     | UL 94       |

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 3.0 to 4.0 hr           | 3.0 to 4.0 hr      |
| Suggested Max Moisture | < 0.10 %                | < 0.10 %           |
| Processing (Melt) Temp | 518 to 554 °F           | 270 to 290 °C      |
| Mold Temperature       | 140 to 194 °F           | 60 to 90 °C        |