



# Bergamid™ B70 G15 H TM-Z UV SO6

## Polyamide 6

### Key Characteristics

| General                |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| Material Status        | • Commercial: Active                                                                     |
| Regional Availability  | • Africa & Middle East • Europe<br>• Asia Pacific • North America                        |
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight                                                      |
| Features               | • Good Color Stability • High Impact Resistance<br>• High Heat Resistance • UV Resistant |
| RoHS Compliance        | • RoHS Compliant                                                                         |
| Forms                  | • Pellets                                                                                |

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

| Physical                                     | Typical Value (English)       | Typical Value (SI)            | Test Method |
|----------------------------------------------|-------------------------------|-------------------------------|-------------|
| Density <sup>2</sup> (73°F (23°C))           | 1.17 g/cm <sup>3</sup>        | 1.17 g/cm <sup>3</sup>        | DIN 53479   |
| Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)    | > 6.0 g/10 min                | > 6.0 g/10 min                | ISO 1133    |
| Melt Volume-Flow Rate (MVR) (235°C/2.16 kg)  | > 5.00 cm <sup>3</sup> /10min | > 5.00 cm <sup>3</sup> /10min | ISO 1133    |
| Ash Content                                  | 15 %                          | 15 %                          | ISO 3451    |
| Mechanical                                   | Typical Value (English)       | Typical Value (SI)            | Test Method |
| Tensile Modulus                              |                               |                               | ISO 527-2/1 |
| 73°F (23°C), 0.157 in (4.00 mm)              | 783000 psi                    | 5400 MPa                      |             |
| Tensile Stress                               |                               |                               | ISO 527-2/5 |
| Break, 73°F (23°C), 0.157 in (4.00 mm)       | 14500 psi                     | 100 MPa                       |             |
| Tensile Strain                               |                               |                               | ISO 527-2/5 |
| Break, 73°F (23°C), 0.157 in (4.00 mm)       | > 4.0 %                       | > 4.0 %                       |             |
| Impact                                       | Typical Value (English)       | Typical Value (SI)            | Test Method |
| Charpy Notched Impact Strength (73°F (23°C)) | > 8.1 ft·lb/in <sup>2</sup>   | > 17 kJ/m <sup>2</sup>        | ISO 179/1eA |
| Charpy Unnotched Impact Strength             |                               |                               | ISO 179/1eU |
| 73°F (23°C)                                  | 36 ft·lb/in <sup>2</sup>      | 75 kJ/m <sup>2</sup>          |             |
| Thermal                                      | Typical Value (English)       | Typical Value (SI)            | Test Method |
| Heat Deflection Temperature                  |                               |                               | ISO 75-2/B  |
| 66 psi (0.45 MPa), Unannealed                | 401 °F                        | 205 °C                        |             |
| Maximum Use Temperature                      |                               |                               | IEC 60216   |
| -- <sup>3</sup>                              | 203 °F                        | 95 °C                         |             |
| Short Time                                   | 374 °F                        | 190 °C                        |             |
| Melting Temperature (DSC)                    | 433 °F                        | 223 °C                        | ISO 3146    |
| Electrical                                   | Typical Value (English)       | Typical Value (SI)            | Test Method |
| Surface Resistivity                          | 1.0E+12 ohms                  | 1.0E+12 ohms                  | IEC 60093   |
| Volume Resistivity                           | 1.0E+13 ohms·cm               | 1.0E+13 ohms·cm               | IEC 60093   |

### Notes

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

<sup>2</sup> ±0.03 g/cm<sup>3</sup>

<sup>3</sup> Continuous (GTP 50% Tensile)