



Bergamid™ A70 G15 TM-Z

Polyamide 66

Key Characteristics

| General | |
|------------------------|---|
| Material Status | • Commercial: Active |
| Regional Availability | • Africa & Middle East • Europe • Asia Pacific • Latin America • North America |
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight |
| Additive | • Impact Modifier |
| Features | • General Purpose |
| Forms | • Granules |
| Processing Method | • Injection Molding |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|-------------------------------------|---------------------------|------------------------|-------------|
| Density ² | 1.20 g/cm ³ | 1.20 g/cm ³ | ISO 1183 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Modulus (73°F (23°C)) | 696000 psi | 4800 MPa | ISO 527-2/1 |
| Tensile Stress (Break, 73°F (23°C)) | 14500 psi | 100 MPa | ISO 527-2 |
| Tensile Strain (Break, 73°F (23°C)) | 5.0 % | 5.0 % | ISO 527-2 |
| Flexural Modulus | 558000 psi | 3850 MPa | ISO 178 |
| Flexural Stress | 17800 psi | 123 MPa | ISO 178 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Charpy Notched Impact Strength | | | ISO 179 |
| -22°F (-30°C) | 2.9 ft·lb/in ² | 6.0 kJ/m ² | |
| 73°F (23°C) | 7.1 ft·lb/in ² | 15 kJ/m ² | |
| Charpy Unnotched Impact Strength | | | ISO 179 |
| -22°F (-30°C) | 39 ft·lb/in ² | 82 kJ/m ² | |
| 73°F (23°C) | 32 ft·lb/in ² | 68 kJ/m ² | |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Heat Deflection Temperature | | | ISO 75-2/A |
| 264 psi (1.8 MPa), Unannealed | > 469 °F | > 243 °C | |
| Melting Temperature (DSC) | 502 °F | 261 °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 |

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 | 536 to 572 °F | 280 to 300 °C |
| Mold Temperature | 122 to 194 °F | 50 to 90 °C |

Notes

¹ Typical values are not to be construed as specifications.

² ±0.02
