



Bergamid™ A70 G15 BLACK TM-XF

Polyamide 66

Key Characteristics

| General | |
|------------------------|-------------------------------------|
| Material Status | • Commercial: Active |
| Regional Availability | • Europe |
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight |
| Features | • Impact Modified |
| Appearance | • Black |
| Forms | • Pellets |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|--|-------------------------|------------------------|-------------|
| Density ² | 1.23 g/cm ³ | 1.23 g/cm ³ | ISO 1183 |
| K-Value | 70.0 to 74.0 | 70.0 to 74.0 | ISO 1628-2 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Modulus (73°F (23°C)) | 798000 psi | 5500 MPa | ISO 527-2/1 |
| Tensile Stress (Break, 73°F (23°C)) | 17400 psi | 120 MPa | ISO 527-2 |
| Tensile Strain (Break, 73°F (23°C)) | 3.0 % | 3.0 % | ISO 527-2 |
| Flexural Stress | 23200 psi | 160 MPa | ISO 178 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Charpy Unnotched Impact Strength 73°F (23°C) | No Break | No Break | ISO 179 |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed | 473 °F | 245 °C | ISO 75-2/B |
| Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed | 446 °F | 230 °C | ISO 75-2/A |
| Maximum Use Temperature | | | IEC 216 |
| Continuous | 212 to 230 °F | 100 to 110 °C | |
| Short Term | < 428 °F | < 220 °C | |
| 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 |
| Relative Permittivity | 3.50 | 3.50 | IEC 60250 |
| Dissipation Factor | 0.015 | 0.015 | IEC 60250 |
| 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 |
| Flammability | < 4 in/min | < 100 mm/min | FMVSS |

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 |

| Injection | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| 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