# Bergamid™ B700 Mi10 UF

## Polyamide 6

### Key Characteristics

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Regional Availability | • Africa & Middle East | • Asia Pacific | • Europe |
| Filler / Reinforcement | • Mineral, 10% Filler by Weight | | |
| RoHS Compliance | • RoHS Compliant | | |
| Forms | • Pellets | | |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density [2] | 1.26 g/cm³ | 1.26 g/cm³ | DIN 53479 |
| Ash Content | 10 % | 10 % | ISO 3451 |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Modulus (73°F (23°C)) | 537000 psi | 3700 MPa | ISO 527-2/1 |
| Tensile Stress (Break, 73°F (23°C)) | 10200 psi | 70.0 MPa | ISO 527-2/5 |
| Tensile Strain (Break, 73°F (23°C)) | 3.0 % | 3.0 % | ISO 527-2/5 |
| **Impact** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Charpy Notched Impact Strength (73°F (23°C)) | 3.0 ft·lb/in² | 6.3 kJ/m² | ISO 179/1eA |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| 73°F (23°C) | 90 ft·lb/in² | 190 kJ/m² | |
| **Thermal** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Melting Temperature (DSC) | 433 °F | 223 °C | ISO 3146 |
| **Electrical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Surface Resistivity | 1.0E+10 ohms | 1.0E+10 ohms | IEC 60093 |
| Volume Resistivity | 1.0E+12 ohms·cm | 1.0E+12 ohms·cm | IEC 60093 |
| Comparative Tracking Index (Solution A) | 600 V | 600 V | IEC 60112 |
| **Flammability** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Flame Rating (0.06 in (1.6 mm), ALL) | V-2 | V-2 | Internal Method |
| Glow Wire Ignition Temperature [3] | | | IEC 60695-2-13 |
| 0.12 in (3.0 mm) | 1760 °F | 960 °C | |

**Notes**

[1] Typical values are not to be construed as specifications.

[2] ±0.03 g/cm³

[3] 1.6 mm wire

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