



Bergamid™ B70 TM-X

Polyamide 6

Key Characteristics

| Product Description | |
|------------------------------------|---------------------------------|
| PA6 Compound with Impact Modified. | |
| General | |
| Material Status | • Commercial: Active |
| Regional Availability | • Africa & Middle East • Europe |
| Features | • Impact Modified |

Technical Properties ¹

| Physical | Dry | Conditioned | Unit | Test Method |
|----------------------------------|--|------------------|---|-------------|
| Density | 1.10 | -- | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) | 16 | -- | g/10 min | ISO 1133 |
| Molding Shrinkage | | | | ISO 294-4 |
| Across Flow | 0.68 | -- | % | |
| Flow | 0.68 | -- | % | |
| Mechanical | Dry | Conditioned | Unit | Test Method |
| Tensile Modulus | 363000 (2500) | 174000 (1200) | psi (MPa) | ISO 527-2 |
| Tensile Stress (Yield) | 9430 (65.0) | 7250 (50.0) | psi (MPa) | ISO 527-2 |
| Tensile Strain (Yield) | 4.0 | 23 | % | ISO 527-2 |
| Flexural Modulus | 318000 (2190) | -- | psi (MPa) | ISO 178 |
| Flexural Stress | 10900 (75.0) | -- | psi (MPa) | ISO 178 |
| Impact | Dry | Conditioned | Unit | Test Method |
| Charpy Notched Impact Strength | | | | ISO 179 |
| -22°F (-30°C) | 5.7 (12) | -- | ft-lb/in ² (kJ/m ²) | |
| 73°F (23°C) | 8.1 ft-lb/in ² (17 kJ/m ²) | No Break | (kJ/m ²) | |
| Charpy Unnotched Impact Strength | | | | ISO 179 |
| -22°F (-30°C) | No Break | No Break | | |
| 73°F (23°C) | No Break | No Break | | |
| Thermal | Dry | Conditioned | Unit | Test Method |
| Heat Deflection Temperature | | | | ISO 75-2/A |
| 264 psi (1.8 MPa), Unannealed | 140 (60.0) | -- | °F (°C) | |
| Melting Temperature (DSC) | 433 (223) | -- | °F (°C) | ISO 3146 |

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| Electrical | Dry | Conditioned | Unit | Test Method |
|---------------------------------|---------|--------------|------------------|-------------|
| Surface Resistivity | 1.0E+13 | 1.0E+10 | ohms | IEC 60093 |
| Volume Resistivity | 1.0E+15 | 1.0E+12 | ohms·cm | IEC 60093 |
| Electric Strength | -- | 1500 (60) | V/mil (kV/mm) | IEC 60243-1 |
| Relative Permittivity (1 MHz) | 3.70 | 7.00 | | IEC 60250 |
| Dissipation Factor (1 MHz) | 0.030 | 0.30 | | IEC 60250 |
| Comparative Tracking Index | 600 | -- | V | IEC 60112 |
| Flammability | Dry | Conditioned | Unit | Test Method |
| Flame Rating | | | | UL 94 |
| 0.03 to 0.06 in (0.8 to 1.6 mm) | HB | -- | | |

Processing Information

| Injection | Dry (English) | Dry (SI) |
|------------------------|-------------------|-----------------|
| Drying Temperature | 176 °F | 80 °C |
| Drying Time | 3.0 to 4.0 hr | 3.0 to 4.0 hr |
| Processing (Melt) Temp | 482 to 536 °F | 250 to 280 °C |
| Mold Temperature | 104 to 176 °F | 40 to 80 °C |
| Holding Pressure | 7250 to 14500 psi | 50.0 to 100 MPa |

Notes

¹ Typical values are not to be construed as specifications.

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