



Bergamid™ A70 G20 H BK014

Polyamide 66

Key Characteristics

| Product Description | |
|--|-------------------------------------|
| Glass fiber reinforced PA66 compound with heat stabilized. | |
| General | |
| Material Status | • Commercial: Active |
| Regional Availability | • Asia Pacific |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight |
| Appearance | • Black |
| Processing Method | • Injection Molding |

Technical Properties ¹

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---------------------------|-----------------------|-----------------|
| Specific Gravity | 1.25 | 1.25 | ISO 1183 |
| Molding Shrinkage | 0.60 to 0.90 % | 0.60 to 0.90 % | ASTM D955 |
| Mechanical | Typical Value (English) | Typical Value (SI) | Test Method |
| Tensile Stress | 19600 psi | 135 MPa | ISO 527-2 |
| Flexural Modulus | 870000 psi | 6000 MPa | ISO 178 |
| Flexural Stress | 31900 psi | 220 MPa | ISO 178 |
| Impact | Typical Value (English) | Typical Value (SI) | Test Method |
| Charpy Notched Impact Strength | 3.3 ft·lb/in ² | 7.0 kJ/m ² | ISO 179 |
| Thermal | Typical Value (English) | Typical Value (SI) | Test Method |
| Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm) | 455 °F | 235 °C | ASTM D648 |
| Electrical | Typical Value (English) | Typical Value (SI) | Test Method |
| Surface Resistivity | > 1.0E+12 ohms | > 1.0E+12 ohms | ASTM D257 |
| Flammability | Typical Value (English) | Typical Value (SI) | Test Method |
| Flame Rating (0.13 in (3.2 mm)) | HB | HB | Internal Method |

Processing Information

| Injection | Typical Value (English) | Typical Value (SI) |
|--------------------|-------------------------|--------------------|
| Drying Temperature | 176 to 194 °F | 80.0 to 90.0 °C |
| Drying Time | 4.0 to 6.0 hr | 4.0 to 6.0 hr |
| Rear Temperature | 500 to 536 °F | 260 to 280 °C |
| Middle Temperature | 500 to 536 °F | 260 to 280 °C |
| Front Temperature | 500 to 536 °F | 260 to 280 °C |
| Mold Temperature | 149 to 185 °F | 65.0 to 85.0 °C |

| Injection Notes |
|------------------------------|
| Injection Pressure: MED-HIGH |
| Hold Pressure: MED-HIGH |
| Screw Speed: MODERATE |
| Back Pressure: LOW |

Notes

¹ Typical values are not to be construed as specifications.

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