



# Bergamid™ B70 Mi40

## Polyamide 6

### Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Mineral, 40% Filler by Weight
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.45 g/cm <sup>3</sup>	1.45 g/cm <sup>3</sup>	ISO 1183
Ash Content	40 %	40 %	ISO 3451
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))	12500 psi	86.0 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	4.0 %	4.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.4 ft·lb/in <sup>2</sup>	3.0 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	41 ft·lb/in <sup>2</sup>	86 kJ/m <sup>2</sup>	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	392 °F	200 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	194 °F	90.0 °C	ISO 75-2/A
Melting Temperature	433 °F	223 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+10 to 1.0E+13 ohms	1.0E+10 to 1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+12 to 1.0E+15 ohms·cm	1.0E+12 to 1.0E+15 ohms·cm	IEC 60093

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature - Dry Air Dryer	< 176 °F	< 80 °C
Drying Time	< 4.0 hr	< 4.0 hr
Suggested Max Moisture	< 0.10 %	< 0.10 %
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

### Notes

<sup>1</sup> Typical values are not to be construed as specifications.

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