



# Bergamid™ B70 MI40 NC004

## Polyamide 6

### Key Characteristics

Product Description	
Mineral reinforced PA6 compound	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Mineral, 40% Filler by Weight
Appearance	• Natural Color
Processing Method	• Injection Molding

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.45	1.45	ASTM D792
Molding Shrinkage	0.40 to 1.0 %	0.40 to 1.0 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup>	9430 psi	65.0 MPa	ASTM D638
Flexural Modulus <sup>3</sup>	696000 psi	4800 MPa	ASTM D790
Flexural Strength <sup>3</sup>	17400 psi	120 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact	0.66 ft-lb/in	35 J/m	ASTM D256
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)	158 °F	70.0 °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 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	149 to 185 °F	65 to 85 °C

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

### Notes

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

<sup>2</sup> 2.0 in/min (50 mm/min)

<sup>3</sup> 0.051 in/min (1.3 mm/min)

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