



Bergamid™ B70 Mi40 P Natural Polyamide 6

Key Characteristics

Product Description	
Impact modified	
General	
Material Status	• Commercial: Active
Regional Availability	• Africa & Middle East • Asia Pacific • Europe
Filler / Reinforcement	• Mineral, 40% Filler by Weight
Additive	• Impact Modifier
Features	• Impact Modified
Appearance	• Natural Color
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.32	1.32	ASTM D792
Density	1.33 g/cm ³	1.33 g/cm ³	ISO 1183
Molding Shrinkage - Flow	5.0E-3 to 0.010 in/in	0.50 to 1.0 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	696000 psi	4800 MPa	ISO 527-2
Tensile Strength ²	5800 psi	40.0 MPa	ASTM D638
Tensile Stress	7250 psi	50.0 MPa	ISO 527-2
Tensile Strain (Break)	> 4.0 %	> 4.0 %	ISO 527-2
Flexural Modulus ³	725000 psi	5000 MPa	ASTM D790
Flexural Modulus	696000 psi	4800 MPa	ISO 178
Flexural Strength ³	18100 psi	125 MPa	ASTM D790
Flexural Stress	12300 psi	85.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.7 ft·lb/in ²	3.5 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	31 ft·lb/in ²	65 kJ/m ²	ISO 179
Notched Izod Impact 73°F (23°C), 0.126 in (3.20 mm)	0.75 ft·lb/in	40 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)	167 °F	75.0 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	446 to 518 °F	230 to 270 °C
Middle Temperature	446 to 518 °F	230 to 270 °C
Front Temperature	446 to 518 °F	230 to 270 °C
Mold Temperature	158 to 194 °F	70 to 90 °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.

² 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)

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