



Bergamid™ B70 MI30 U Natural TM-X 70

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Mineral, 30% Filler by Weight		
Features	• Flame Retardant • Good Impact Resistance	• Good Processability • Good Stiffness	• Good Strength • Medium Viscosity
Uses	• Appliances • Automotive Applications	• Consumer Applications • Electrical/Electronic Applications	• General Purpose • Industrial Applications
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.63 g/cm ³	1.63 g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.80 to 1.0 %	0.80 to 1.0 %	
Flow	0.40 to 0.60 %	0.40 to 0.60 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	725000 psi	5000 MPa	ISO 527-2/1
Tensile Stress	6530 psi	45.0 MPa	ISO 527-2/5
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	1.3 ft·lb/in ²	2.8 kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength	1.4 ft·lb/in ²	3.0 kJ/m ²	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	
Melting Temperature	428 to 437 °F	220 to 225 °C	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	V-0	V-0	UL 94
Glow Wire Flammability Index 0.08 in (2.0 mm)	1760 °F	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature 0.08 in (2.0 mm)	1430 °F	775 °C	IEC 60695-2-13

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
Rear Temperature	455 to 473 °F	235 to 245 °C
Middle Temperature	464 to 482 °F	240 to 250 °C
Front Temperature	473 to 491 °F	245 to 255 °C
Nozzle Temperature	482 to 500 °F	250 to 260 °C
Mold Temperature	140 to 176 °F	60 to 80 °C