



Bergamid™ B70 G15 Natural 70

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Features	• Good Hardness • Good Impact Resistance	• Good Processability • Good Stiffness	• Good Strength • Medium Viscosity
Uses	• Appliances • Automotive Applications	• Consumer 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	1.22 g/cm ³	1.22 g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.90 to 1.2 %	0.90 to 1.2 %	
Flow	0.40 to 0.70 %	0.40 to 0.70 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	798000 psi	5500 MPa	ISO 527-2/1
Tensile Stress	17400 psi	120 MPa	ISO 527-2/5
Tensile Strain (Break)	3.5 %	3.5 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	2.9 ft-lb/in ²	6.0 kJ/m ²	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	383 °F	195 °C	ISO 75-2/A
Vicat Softening Temperature	419 °F	215 °C	ISO 306 ²
Melting Temperature (DSC)	428 to 437 °F	220 to 225 °C	ISO 3146
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	446 to 464 °F	230 to 240 °C
Middle Temperature	455 to 473 °F	235 to 245 °C
Front Temperature	464 to 482 °F	240 to 250 °C
Nozzle Temperature	482 to 500 °F	250 to 260 °C
Mold Temperature	176 °F	80 °C

Notes

¹ Typical values are not to be construed as specifications.

² 120°C/h, A (10N)
