



Bergamid™ B70 G30 RAL 9016

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Good Hardness • Good Processability	• Good Stiffness • Good Strength	• High Impact Resistance • Medium Viscosity
Uses	• Appliances • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• White		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.35 g/cm ³	1.35 g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.25 to 0.45 %	0.25 to 0.45 %	
Flow	0.75 to 0.95 %	0.75 to 0.95 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.23E+6 psi	8500 MPa	ISO 527-2/1
Tensile Stress	16000 psi	110 MPa	ISO 527-2/5
Tensile Strain ² (Break)	2.3 %	2.3 %	ISO 527
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
Vicat Softening Temperature	410 °F	210 °C	ISO 306/A120
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))	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	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	176 to 194 °F	80 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5 mm/min)