



Bergamid™ B70 G30 H Black T UV 70

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Good Hardness • Good Heat Resistance • Good Processability	• Good Stiffness • Good Strength • Heat Stabilized	• High Impact Resistance • Medium Viscosity • UV Stabilized
Uses	• Appliances • Automotive Applications	• Consumer Applications • General Purpose	• Industrial Applications
Appearance	• Black		
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	1.31E+6 psi	9000 MPa	ISO 527-2/1
Tensile Stress	21800 psi	150 MPa	ISO 527-2/5
Tensile Strain ² (Break)	2.5 %	2.5 %	ISO 527
Flexural Modulus	1.20E+6 psi	8250 MPa	ISO 178
Flexural Stress	33400 psi	230 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
Injection Molded	5.7 ft·lb/in ²	12 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
Injection Molded	34 ft·lb/in ²	72 kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-9°F (-23°C)	2.4 ft·lb/in ²	5.0 kJ/m ²	
73°F (23°C)	4.3 ft·lb/in ²	9.0 kJ/m ²	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	419 °F	215 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	383 °F	195 °C	
Vicat Softening Temperature	428 °F	220 °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

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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)

³ Notch A

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