



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

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