



Bergamid™ B70 G30 Natural

Polyamide 6

Key Characteristics

Product Description			
30% glass fiber reinforced PA 6 resin for injection molding.			
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	• Automotive Applications • Consumer Applications	• General Purpose • Household Goods	• Industrial Applications
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.35 g/cm ³	1.35 g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.20 to 0.40 %	0.20 to 0.40 %	
Flow	0.90 to 1.2 %	0.90 to 1.2 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.34E+6 psi	9250 MPa	ISO 527-2/1
Tensile Stress (Break)	508 psi	3.50 MPa	ISO 527-2/5
Tensile Stress	23200 psi	160 MPa	ISO 527-2/5
Flexural Modulus	1.20E+6 psi	8300 MPa	ISO 178
Flexural Stress	34100 psi	235 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength	6.7 ft·lb/in ²	14 kJ/m ²	ISO 180/A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	392 °F	200 °C	
Vicat Softening Temperature	410 °F	210 °C	ISO 306/A120
Ball Pressure Test			IEC 60695-10-2
257°F (125°C), 0.0787 in (2.00 mm)	Pass	Pass	
Melting Temperature	428 to 437 °F	220 to 225 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index (Solution A)	500 V	500 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	HB	HB	UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.08 in (2.0 mm)	1200 °F	650 °C	

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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	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	149 to 185 °F	65 to 85 °C

Notes

¹ Typical values are not to be construed as specifications.

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