



Bergamid™ B70 G30 natural SO

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	• UV Resistant
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 ²	1.37 g/cm ³	1.37 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.38E+6 psi	9500 MPa	ISO 527-2/1
Tensile Stress (Break)	24700 psi	170 MPa	ISO 527-2/5
Tensile Strain (Break)	> 2.5 %	> 2.5 %	ISO 527-2
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
Charpy Notched Impact Strength	4.8 ft·lb/in ²	10 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	32 ft·lb/in ²	68 kJ/m ²	ISO 179
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 264 psi (1.8 MPa), Unannealed	392 °F	200 °C	ISO 75-2/A
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
Burning Rate (0.0630 in (1.60 mm))	< 3.9 in/min	< 100 mm/min	FMVSS
Flame Rating	HB	HB	UL 94

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

Injection	Typical Value (English)	Typical Value (SI)
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.

² ±0.02