

Bergamid™ B70 G30 natural SO Polyamide 6

Key Characteristics

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roduct Description			
30% glass fiber reinforced PA	6 resin for injection molding.		
Seneral			
Material Status	 Commercial: Active 		
Regional Availability	Europe		
Filler / Reinforcement	Glass Fiber, 30% Filler by Weight		
Features	Good HardnessGood ProcessabilityGood Stiffness	Good StrengthHigh Impact ResistanceMedium Viscosity	UV Resistant
Uses	Automotive ApplicationsConsumer Applications	General PurposeHousehold Goods	Industrial Applications
Appearance	 Natural Color 		
Forms	 Pellets 		
Processing Method	Injection Molding		

Technical Properties 1

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Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.37 g/cm³	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
mpact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	4.8 ft·lb/in²	10 kJ/m²	ISO 179
Charpy Unnotched Impact Strength	32 ft·lb/in²	68 kJ/m²	ISO 179
Notched Izod Impact Strength	6.7 ft·lb/in²	14 kJ/m²	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
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	НВ	НВ	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	

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Rev: 2019-06-07 Page: 1 of 2

Bergamid™ B70 G30 natural SO

Technical Data Sheet

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.

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Rev: 2019-06-07 Page: 2 of 2

 $^{^{2}}$ ±0.02