



Bergamid™ B70 G30

Polyamide 6

Key Characteristics

Product Description

Bergamid B70 G30 is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	1.35	g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.70	0.30 to 0.70	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.38E+6 (9500)	914000 (6300)	psi (MPa)	ISO 527-2
Tensile Strength	26100 (180)	16700 (115)	psi (MPa)	ISO 527
Tensile Strain (Break)	3.0	5.0	%	ISO 527
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F (-30°C)	5.7 (12)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	7.1 (15)	14 (30)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179
-22°F (-30°C)	38 (80)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	43 (90)	49 (100)	ft·lb/in ² (kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi (0.45 MPa), Unannealed	428 (220)	428 (220)	°F (°C)	
Heat Deflection Temperature				ISO 75-2/A
264 psi (1.8 MPa), Unannealed	410 (210)	410 (210)	°F (°C)	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB		UL 94

Processing Information

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.