



Bergamid™ B70 G30 H TM-X SO

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Europe		
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Good Stiffness	• Heat Stabilized	• Impact Modified
RoHS Compliance	• RoHS Compliant		
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
Water Absorption Equilibrium, 73°F (23°C), 0.0787 in (2.00 mm), 50% RH	--	1.9	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ² (73°F (23°C))	1.36E+6 (9400)	1.02E+6 (7000)	psi (MPa)	ISO 527
Tensile Stress (Break, 73°F (23°C))	22500 (155)	18900 (130)	psi (MPa)	ISO 527
Tensile Strain (Break, 73°F (23°C))	4.0	> 6.0	%	ISO 527
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F (-30°C)	4.3 (9.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	7.1 (15)	9.0 (19)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F (-30°C)	36 (75)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C)	40 ft·lb/in ² (85 kJ/m ²)	No Break	(kJ/m ²)	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2
66 psi (0.45 MPa), Unannealed	426 (219)	--	°F (°C)	
Deflection Temperature Under Load				ISO 75-2
264 psi (1.8 MPa), Unannealed	405 (207)	--	°F (°C)	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093

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Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating ³				UL 94
0.031 in (0.8 mm)	HB	--		
0.06 in (1.6 mm)	HB	--		

Processing Information

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	< 4.0 hr	< 4.0 hr
Suggested Max Moisture	< 0.10 %	< 0.10 %
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² 0.039 in/min (1 mm/min)

³ Conform to UL94

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