Bergamid™ B70 G30 TM-ZA

Polyamide 6

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• Europe	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Features	• Good Stiffness	• Impact Modified
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Injection Molding	

Technical Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.30	1.30	g/cm³	ISO 1183
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus [2] (73°F (23°C))	1.07E+6 (7400)	783000 (5400)	psi (MPa)	ISO 527
Tensile Stress (Break)	19600 (135)	16000 (110)	psi (MPa)	ISO 527
Tensile Strain (Break)	4.0	7.0	%	ISO 527
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	9.5 (20)	17 (35)	ft·lb/in² (kJ/m²)	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F (23°C)	38 (80)	50 (110)	ft·lb/in² (kJ/m²)	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2
66 psi (0.45 MPa), Unannealed	392 (200)	--	°F (°C)	
Deflection Temperature Under Load				ISO 75-2
264 psi (1.8 MPa), Unannealed	383 (195)	--	°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
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