



Bergamid™ B70 H TM-X

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Features	• Heat Stabilized • Impact Modified
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183
Molding Shrinkage	1.2	--	%	ISO 294-4
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	363000 (2500)	174000 (1200)	psi (MPa)	ISO 527-2
Tensile Stress (Yield)	9430 (65.0)	7250 (50.0)	psi (MPa)	ISO 527-2
Tensile Strain (Yield)	4.0	23	%	ISO 527-2
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)	8.1 (17)	No Break	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179
-22°F (-30°C)	No Break	No Break		
73°F (23°C)	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi (0.45 MPa), Unannealed	347 (175)	--	°F (°C)	
Heat Deflection Temperature				ISO 75-2/A
264 psi (1.8 MPa), Unannealed	140 (60.0)	--	°F (°C)	
Melting Temperature (DSC)	433 (223)	--	°F (°C)	ISO 3146
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
Electric Strength	--	1500 (60)	V/mil (kV/mm)	IEC 60243-1

Electrical	Dry	Conditioned	Unit	Test Method
Relative Permittivity (1 MHz)	3.70	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.030	0.30		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.03 to 0.06 in (0.8 to 1.6 mm)	HB	--		

Processing Information

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C
Mold Temperature	104 to 176 °F	40 to 80 °C
Holding Pressure	7250 to 14500 psi	50.0 to 100 MPa

Notes

¹ Typical values are not to be construed as specifications.