



# Bergamid™ B70 TM-Z

## Polyamide 6

### Key Characteristics

Product Description	
PA6 Compound with Impact Modified.	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Features	• High Impact Resistance

### Technical Properties <sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm <sup>3</sup>	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	290000 (2000)	145000 (1000)	psi (MPa)	ISO 527-2
Tensile Stress (Yield)	7980 (55.0)	5800 (40.0)	psi (MPa)	ISO 527-2
Tensile Strain (Yield)	4.0	27	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F (-30°C)	10 (22)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
73°F (23°C)	No Break	No Break		
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/A
264 psi (1.8 MPa), Unannealed	122 (50.0)	--	°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
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

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Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 3.9 (< 100)	--	in/min (mm/min)	FMVSS
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

<sup>1</sup> Typical values are not to be construed as specifications.

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