



Bergamid™ B70 PM-Z SO

Polyamide 6

Key Characteristics

Product Description	
6013041	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Features	• Halogen Free • Impact Modified • Laser Markable
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density ² (73°F (23°C))	1.07	1.07	g/cm ³	ISO 1183
Molding Shrinkage - Flow ³				ISO 294-4
73°F (23°C), 0.157 in (4.00 mm)	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2/50
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	290000 (2000)	152000 (1050)	psi (MPa)	
Tensile Stress				ISO 527-2/50
Yield, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	6240 (43.0)	4060 (28.0)	psi (MPa)	
Tensile Strain				ISO 527-2/50
Yield, 73°F (23°C), 0.157 in (4.00 mm)	3.0	4.0	%	
Tensile Strain				ISO 527-2/50
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	> 80	> 150	%	
Flexural Modulus				ISO 178
73°F (23°C), Injection Molded	174000 (1200)	65300 (450)	psi (MPa)	
Flexural Stress				ISO 178
73°F (23°C), Injection Molded	6090 (42.0)	1890 (13.0)	psi (MPa)	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F (23°C), Injection Molded	42 (89)	44 (93)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179
-22°F (-30°C), Injection Molded	No Break	No Break		
73°F (23°C), Injection Molded	No Break	No Break		

Thermal	Dry	Conditioned	Unit	Test Method
Vicat Softening Temperature	329 (165)	--	°F (°C)	ISO 306/B
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+15	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+15	1.0E+15	ohms·cm	ASTM D257
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.13 in (3.2 mm), ALL)	HB	HB		UL 94

Processing Information

Injection	Dry (English)	Dry (SI)
Drying Temperature	140 °F	60 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	464 to 500 °F	240 to 260 °C
Mold Temperature	140 to 176 °F	60 to 80 °C

Notes

¹ Typical values are not to be construed as specifications.

² ±0.02

³ Bergmann method