

Bergamid[™] B70 G45 BK LS Polyamide 6

Key Characteristics

Product Description	
6016133	
General	
Material Status	Commercial: Active
Regional Availability	Europe
Filler / Reinforcement	Glass Fiber, 45% Filler by Weight
Features	 Good Dimensional Stability Good Flow Laser Markable
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Injection Molding

Technical Properties¹

Physical	Dry	Conditioned	Unit	Test Method
Density (73°F (23°C))	1.52		g/cm³	ISO 1183
Molding Shrinkage - Flow ²				ISO 294-4
73°F (23°C), 157 in (4000 mm)	0.080 to 0.60		%	
lechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	1.89E+6 (13000)	1.45E+6 (10000)	psi (MPa)	
Tensile Strength ³				ISO 527
73°F (23°C), 0.157 in (4.00 mm)	27800 (192)	21800 (150)	psi (MPa)	
Tensile Elongation ³				ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	2.5	3.5	%	
Flexural Modulus (73°F (23°C))	1.78E+6 (12300)		psi (MPa)	ISO 178
Flexural Stress (73°F (23°C))	42100 (290)		psi (MPa)	ISO 178
npact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F (23°C), Injection Molded	5.2 (11)		ft·lb/in² (kJ/m²)	
Charpy Unnotched Impact Strength				ISO 179
73°F (23°C), Injection Molded	41 (87)		ft·lb/in² (kJ/m²)	
lectrical	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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Technical Data Sheet

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				Internal Method
0.03 to 0.12 in (0.8 to 3.0 mm), ALL	HB	HB		

Processing Information					
Injection	Dry (English)	Dry (SI)			
Drying Temperature	176 °F	80.0 °C			
Drying Time	4.0 hr	4.0 hr			
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C			
Mold Temperature	149 to 185 °F	65.0 to 85.0 °C			

Notes

¹ Typical values are not to be construed as specifications.

² Bergmann method

³ 0.20 in/min (5.0 mm/min)

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