



# 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 Stiffness • Good Flow • Halogen Free • Laser Markable
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Dry	Conditioned	Unit	Test Method
Density (73°F (23°C))	1.52	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow <sup>2</sup>				ISO 294-4
73°F (23°C), 157 in (4000 mm)	0.080 to 0.60	--	%	
Mechanical	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 <sup>3</sup>				ISO 527
73°F (23°C), 0.157 in (4.00 mm)	27800 (192)	21800 (150)	psi (MPa)	
Tensile Elongation <sup>3</sup>				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
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F (23°C), Injection Molded	5.2 (11)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179
73°F (23°C), Injection Molded	41 (87)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
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

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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 °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 to 85 °C

### Notes

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

<sup>2</sup> Bergmann method

<sup>3</sup> 0.20 in/min (5.0 mm/min)

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