



Bergamid™ B70 G45 H BK UV

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 • Heat Stabilized
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density (73°F (23°C))	1.52	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow ²				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	1.74E+6 (12000)	--	psi (MPa)	
Tensile Strength ³				ISO 527
73°F (23°C), 0.157 in (4.00 mm)	25400 (175)	--	psi (MPa)	
Tensile Elongation ³				ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm)	> 2.5	--	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F (23°C), Injection Molded	5.4 (11)	--	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179
73°F (23°C), Injection Molded	30 (62)	--	ft·lb/in ² (kJ/m ²)	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				Internal Method
0.03 to 0.12 in (0.8 to 3.0 mm), ALL	HB	--		

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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

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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