



## Bergamid™ B70 GK30 Black

### Polyamide 6

#### Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
Filler / Reinforcement	• Glass Bead, 30% Filler by Weight		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

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

Physical	Dry	Conditioned	Unit	Test Method
Density <sup>2</sup> (73°F (23°C))	1.37	--	g/cm <sup>3</sup>	DIN 53479
Molding Shrinkage <sup>3</sup>	2.0	--	%	ISO 294-4
Ash Content	30	--	%	ISO 3451
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	587000 (4050)	--	psi (MPa)	
Tensile Stress				ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	11000 (76.0)	--	psi (MPa)	
Tensile Strain				ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	> 7.0	--	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
73°F (23°C), Injection Molded	1.6 (3.3)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Charpy Unnotched Impact Strength				ISO 179
73°F (23°C), Injection Molded	12 (25)	--	ft·lb/in <sup>2</sup> (kJ/m <sup>2</sup> )	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi (0.45 MPa), Unannealed	401 (205)	--	°F (°C)	
Maximum Use Temperature				IEC 60216
-- <sup>4</sup>	203 (95)	--	°F (°C)	
Short Time	374 (190)	--	°F (°C)	
Melting Temperature (DSC)	433 (223)	--	°F (°C)	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093

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## Notes

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

<sup>2</sup> ±0.03 g/cm<sup>3</sup>

<sup>3</sup> Bergmann method

<sup>4</sup> Continuous (GTP 50% Tensile)

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