



Bergamid™ B70 GK25 UV BK

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
Filler / Reinforcement	• Glass Bead, 25% Filler by Weight		
Features	• UV Resistant		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density ² (73°F (23°C))	1.31	--	g/cm ³	DIN 53479
Molding Shrinkage ³	2.0	--	%	ISO 294-4
Ash Content	25	--	%	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	624000 (4300)	580000 (4000)	psi (MPa)	
Tensile Stress				ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	8410 (58.0)	7540 (52.0)	psi (MPa)	
Tensile Strain				ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	8.7	10	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-22°F (-30°C), Injection Molded	1.4 (3.0)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C), Injection Molded	1.3 (2.7)	2.1 (4.4)	ft·lb/in ² (kJ/m ²)	
Charpy Unnotched Impact Strength				ISO 179
-22°F (-30°C), Injection Molded	9.2 (19)	--	ft·lb/in ² (kJ/m ²)	
73°F (23°C), Injection Molded	13 (28)	15 (32)	ft·lb/in ² (kJ/m ²)	
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
-- ⁴	203 (95)	--	°F (°C)	
Short Time	374 (190)	--	°F (°C)	

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Thermal	Dry	Conditioned	Unit	Test Method
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

Notes¹ Typical values are not to be construed as specifications.² ±0.03 g/cm³³ Bergmann method⁴ Continuous (GTP 50% Tensile)**CONTACT INFORMATION****Americas**United States - Avon Lake
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