PolyOne™

Bergamid™ A/0 GK40
Polyamide 66

Key Characteristics

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

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2]	1.34 g/cm³	1.34 g/cm³	DIN 53479
K-Value [3]	74.0 to 78.0	74.0 to 78.0	
Ash Content	30 %	30 %	

Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus [4]			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm)	580000 to 696000 psi	4000 to 4800 MPa	
Tensile Stress [4]			ISO 527-2/5
Yield, 73°F (23°C), 0.157 in (4.00 mm)	8700 to 13100 psi	60.0 to 90.0 MPa	
Tensile Strain [4]			ISO 527-2/5
Yield, 73°F (23°C), 0.157 in (4.00 mm)	2.5 to 4.0 %	2.5 to 4.0 %	

Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength [4] (73°F (23°C))	12 to 19 ft·lb/in²	25 to 40 kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength [4]			ISO 179/1eU
73°F (23°C)	1.2 to 2.0 ft·lb/in²	2.5 to 4.2 kJ/m²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	374 °F	190 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	221 °F	105 °C	
Maximum Use Temperature			IEC 60216
-- [5]	230 °F	110 °C	
Short Time	428 °F	220 °C	
Melting Temperature (DSC)	502 °F	261 °C	ISO 3146

Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	500 V	500 V	IEC 60112

Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.031 in (0.8 mm)	HB	HB	
0.06 in (1.6 mm)	HB	HB	

Notes

[1] Typical values are not to be construed as specifications.

[2] ±0.03 g/cm³

[3] 96% H2SO4

[4] depending on color

[5] Continuous (GTP 50% Tensile)