



Bergamid™ B65 UF

Polyamide 6

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Asia Pacific	• Europe
Features	• Flame Retardant	• Halogen Free	• Low (to None) Phosphorus Content
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.18 g/cm ³	1.18 g/cm ³	DIN 53479
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	479000 psi	3300 MPa	ISO 527-2/1
Tensile Stress (Break, 73°F (23°C))	10200 psi	70.0 MPa	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm)	8.0 to 12 %	8.0 to 12 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.7 ft·lb/in ²	3.5 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	40 ft·lb/in ²	85 kJ/m ²	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	374 °F	190 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	176 °F	80.0 °C	ISO 75-2/A
Maximum Use Temperature -- ³	185 °F	85 °C	IEC 60216
Short Time	320 °F	160 °C	
Melting Temperature (DSC)	433 °F	223 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+10 ohms	1.0E+10 ohms	IEC 60093
Volume Resistivity	1.0E+12 ohms·cm	1.0E+12 ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	7.00	7.00	IEC 60250
Comparative Tracking Index (Solution A)	600 V	600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			Internal Method
0.01 to 0.12 in (0.4 to 3.0 mm), ALL	V-0	V-0	
Glow Wire Flammability Index 0.02 to 0.12 in (0.4 to 3.0 mm)	1760 °F	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature 0.06 in (1.6 mm)	1380 °F	750 °C	IEC 60695-2-13
0.12 in (3.0 mm)	1340 °F	725 °C	

Notes

¹ Typical values are not to be construed as specifications.

² $\pm 0.03 \text{ g/cm}^3$

³ Continuous (GTP 50% Tensile)