



Bergamid™ B65 G/Mi20 UF grey LS

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass\Mineral, 20% Filler by Weight
Features	• Flame Retardant • Halogen Free • Laser Markable • 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	1.36 g/cm ³	1.36 g/cm ³	DIN 53479
Ash Content	> 20 %	> 20 %	ISO 3451
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	827000 psi	5700 MPa	ISO 527-2/1
Tensile Stress (Break, 73°F (23°C))	13200 psi	91.0 MPa	ISO 527-2/5
Tensile Strain (Break, 73°F (23°C))	2.5 %	2.5 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			
-22°F (-30°C)	1.5 ft·lb/in ²	3.2 kJ/m ²	ISO 179
73°F (23°C)	1.7 ft·lb/in ²	3.5 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			
-22°F (-30°C)	15 ft·lb/in ²	31 kJ/m ²	ISO 179
73°F (23°C)	18 ft·lb/in ²	37 kJ/m ²	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	401 °F	205 °C	
Maximum Use Temperature			IEC 60216
... ³	203 °F	95 °C	
Short Time	374 °F	190 °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
Comparative Tracking Index (Solution A)	400 V	400 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.031 in (0.8 mm), ALL)	V-2	V-2	Internal Method
Glow Wire Flammability Index			IEC 60695-2-12
0.03 to 0.12 in (0.8 to 3.0 mm)	> 1560 °F	> 850 °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)