



Bergamid™ B70 G30 H UF orange VN8647CF

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Flame Retardant • Halogen Free • Heat Stabilized • 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 (73°F (23°C))	1.42 g/cm ³	1.42 g/cm ³	DIN 53479
Ash Content	> 30 %	> 30 %	ISO 3451
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	1.45E+6 psi	10000 MPa	ISO 527-2/1
Tensile Stress Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	> 20300 psi	> 140 MPa	ISO 527-2/5
Tensile Strain Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	> 3.0 %	> 3.0 %	ISO 527-2/5
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength 73°F (23°C), Injection Molded	5.1 ft·lb/in ²	11 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C), Injection Molded	31 ft·lb/in ²	65 kJ/m ²	ISO 179/1eU
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	401 °F	205 °C	ISO 75-2/B
Maximum Use Temperature ... ³	203 °F	95 °C	IEC 60216
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+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 (CTI)	550 V	550 V	UL 746
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating 0.03 to 0.12 in (0.8 to 3.0 mm)	V-0	V-0	UL 94
Glow Wire Flammability Index 0.03 to 0.12 in (0.8 to 3.0 mm)	1760 °F	960 °C	IEC 60695-2-12

Notes

¹ Typical values are not to be construed as specifications.

² $\pm 0.03 \text{ g/cm}^3$

³ Continuous (GTP 50% Tensile)