



Bergamid™ B70 G30 UF Black

Polyamide 6

Key Characteristics

Product Description	
6016178	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Flame Retardant • Good Stiffness • Halogen Free • Good Dimensional Stability • Good Surface Finish
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity ²	1.42 to 1.46	1.42 to 1.46	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.38E+6 psi	9500 MPa	ISO 527-2
Tensile Stress (Break)	18100 psi	125 MPa	ISO 527-2
Tensile Strain (Break)	> 3.0 %	> 3.0 %	ISO 527-2
Flexural Stress	32600 psi	225 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Unnotched Impact Strength 73°F (23°C)	26 ft·lb/in ²	55 kJ/m ²	ISO 179
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
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	392 °F	200 °C	ISO 75-2/A
Maximum Use Temperature			
Continuous	194 to 230 °F	90 to 110 °C	
Short Term	190	190	
Melting Temperature (DSC)	419 to 437 °F	215 to 225 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 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

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr

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Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C
Holding Pressure	7250 to 14500 psi	50.0 to 100 MPa

Notes

¹ Typical values are not to be construed as specifications.

² ±0.02

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