



Bergamid™ B70 G30 UF SO

Polyamide 6

Key Characteristics

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

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity ²	1.45	1.45	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm)	1.60E+6 psi	11000 MPa	
Tensile Strength ³			ISO 527-2
73°F (23°C), 0.157 in (4.00 mm)	17400 psi	120 MPa	
Tensile Elongation ³			ISO 527-2
Break, 73°F (23°C), 0.157 in (4.00 mm)	1.7 to 2.2 %	1.7 to 2.2 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.9 ft·lb/in ²	6.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	24 ft·lb/in ²	50 kJ/m ²	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	500 to 600 V	500 to 600 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.03 to 0.12 in (0.8 to 3.0 mm)	V-0	V-0	
Glow Wire Flammability Index			IEC 60695-2-12
0.03 to 0.12 in (0.8 to 3.0 mm)	1760 °F	960 °C	

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
Processing (Melt) Temp	464 to 509 °F	240 to 265 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

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Notes

¹ Typical values are not to be construed as specifications.² ±0.03³ 0.20 in/min (5.0 mm/min)

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