



Bergamid™ B70 G30 H UF black

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
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.43 to 1.45	1.43 to 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), Injection Molded	1.42E+6 psi	9800 MPa	
Tensile Stress			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	21000 psi	145 MPa	
Tensile Strain			ISO 527-2/5
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	2.0 to 3.0 %	2.0 to 3.0 %	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.3 ft·lb/in ²	9.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	29 ft·lb/in ²	60 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	392 °F	200 °C	ISO 75-2/A
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	525 V	525 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.031 in (0.8 mm)	V-0	V-0	
0.06 to 0.12 in (1.5 to 3.0 mm)	V-0	V-0	
Glow Wire Flammability Index 0.03 to 0.12 in (0.8 to 3.0 mm)	1760 °F	960 °C	IEC 60695-2-12
Glow Wire Ignition Temperature 0.031 in (0.8 mm)	> 1430 °F	> 775 °C	IEC 60695-2-13

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

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	464 to 509 °F	240 to 265 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Notes

¹ Typical values are not to be construed as specifications.