



Bergamid™ B700 G30 U

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Flame Retardant
Appearance	• Natural Color
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.51 to 1.55 g/cm ³	1.51 to 1.55 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.51E+6 psi	10400 MPa	ISO 527-2
Tensile Stress (Break)	27600 psi	190 MPa	ISO 527-2
Tensile Strain (Break)	< 3.0 %	< 3.0 %	ISO 527-2
Flexural Stress	34800 psi	240 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	5.2 ft·lb/in ²	11 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	31 ft·lb/in ²	65 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	410 °F	210 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	401 °F	205 °C	ISO 75-2/A
Melting Temperature (DSC)	419 to 437 °F	215 to 225 °C	ISO 3146
RTI Elec			UL 746
0.031 in (0.8 mm)	149 °F	65.0 °C	
0.12 in (3.0 mm)	149 °F	65.0 °C	
RTI Imp			UL 746
0.031 in (0.8 mm)	149 °F	65.0 °C	
0.12 in (3.0 mm)	149 °F	65.0 °C	
RTI Str			UL 746
0.031 in (0.8 mm)	149 °F	65.0 °C	
0.12 in (3.0 mm)	149 °F	65.0 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	225 V	225 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	
0.12 in (3.0 mm)	V-0	V-0	

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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

Notes

¹ Typical values are not to be construed as specifications.

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