



Bergamid™ B700 G20 H UF Natural Polyamide 6

Key Characteristics

Product Description

Bergamid B700 G/GK30 Black is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber + glass beads. It can be processed by injection molding.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.36 g/cm ³	1.36 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.24E+6 psi	8530 MPa	ISO 527-2
Tensile Stress	16700 psi	115 MPa	ISO 527-2
Tensile Strain (Break)	3.5 %	3.5 %	ISO 527
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.9 to 3.8 ft·lb/in ²	6.0 to 8.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	21 ft·lb/in ²	45 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
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm), all)	V-0	V-0	UL 94
Glow Wire Flammability Index	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
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² ± 0,02