



Bergamid™ B70 G30 Black

Polyamide 6

Key Characteristics

Product Description

Bergamid B70 G30 Black is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.37 g/cm ³	1.37 g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.70 %	0.30 to 0.70 %	ISO 294-4
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.31E+6 psi	9000 MPa	ISO 527-2
Tensile Strength	23200 psi	160 MPa	ISO 527
Tensile Strain (Break)	2.5 %	2.5 %	ISO 527
Flexural Modulus	1.19E+6 psi	8200 MPa	ISO 178
Flexural Strength	33400 psi	230 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	4.8 ft·lb/in ²	10 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	23 ft·lb/in ²	48 kJ/m ²	
73°F (23°C)	29 ft·lb/in ²	61 kJ/m ²	
Notched Izod Impact Strength (73°F (23°C))	5.2 ft·lb/in ²	11 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	428 °F	220 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	410 °F	210 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+14 ohms	1.0E+14 ohms	IEC 60093
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C

Injection	Typical Value (English)	Typical Value (SI)
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² +/-0.02