



# Bergamid™ B70 G30 H grey VN7982CF LS

## Polyamide 6

### Key Characteristics

#### Product Description

Bergamid B70 G30 H Grey VN7982CF LS is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding and its feature is heat stabilized and optimized for laser marking.

#### General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Heat Stabilized • Laser Markable • Laser Markable
Appearance	• Grey
Forms	• Pellets
Processing Method	• Injection Molding

### Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density <sup>2</sup>	1.35 g/cm <sup>3</sup>	1.35 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow <sup>3</sup> 73°F (23°C), 0.157 in (4.00 mm)	0.20 to 0.60 %	0.20 to 0.60 %	Internal Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.38E+6 psi	9500 MPa	ISO 527-2
Tensile Strength	20300 psi	140 MPa	ISO 527
Tensile Strain (Break)	2.5 %	2.5 %	ISO 527
Flexural Strength	36300 psi	250 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	3.3 ft·lb/in <sup>2</sup>	7.0 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	24 ft·lb/in <sup>2</sup>	50 kJ/m <sup>2</sup>	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	< 410 °F	< 210 °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
Surface Resistivity	1.0E+14 ohms	1.0E+14 ohms	IEC 60093
Volume Resistivity	1.0E+16 ohms·cm	1.0E+16 ohms·cm	IEC 60093
Comparative Tracking Index	500 V	500 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	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
Suggested Max Moisture	< 0.10 %	< 0.10 %
Processing (Melt) Temp	482 to 536 °F	250 to 280 °C

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

**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> +/-0.02

<sup>3</sup> PolyOne Method

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