



# Bergamid™ B70 G30 blue/blau VN6778CF

## Polyamide 6

### Key Characteristics

#### Product Description

Bergamid B70 G30 blue 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	• Asia Pacific • Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Appearance	• Blue
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.36 g/cm <sup>3</sup>	1.36 g/cm <sup>3</sup>	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.23E+6 psi	8500 MPa	ISO 527-2
Tensile Strength	24700 psi	170 MPa	ISO 527
Tensile Strain (Break)	3.0 %	3.0 %	ISO 527
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	5.7 ft·lb/in <sup>2</sup>	12 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	38 ft·lb/in <sup>2</sup>	80 kJ/m <sup>2</sup>	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	428 °F	220 °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)	491 to 509 °F	255 to 265 °C	ISO 3146
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+12 ohms	1.0E+12 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093
Comparative Tracking Index	500 V	500 V	IEC 60112
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	HB	HB	UL 94

### 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
Suggested Max Moisture	< 0.10 %	< 0.10 %
Processing (Melt) Temp	518 to 554 °F	270 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

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## Notes

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

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