



Bergamid™ B70 G30 black VN8115CF LT

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Good Dimensional Stability • Good Stiffness • Good Flow • Laser Weldable
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity ²	1.35	1.35	DIN 53479
Molding Shrinkage - Flow ³ 73°F (23°C), 0.157 in (4.00 mm)	0.20 to 0.70 %	0.20 to 0.70 %	ISO 294-4
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	1.45E+6 psi	10000 MPa	ISO 527-2/1
Tensile Strength ⁴ 73°F (23°C), 0.157 in (4.00 mm)	22500 psi	155 MPa	ISO 527
Tensile Elongation ⁴ Break, 73°F (23°C), 0.157 in (4.00 mm)	2.1 %	2.1 %	ISO 527
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	4.3 ft·lb/in ²	9.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	33 ft·lb/in ²	70 kJ/m ²	ISO 179
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+13 ohms	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	IEC 60093
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating 0.03 to 0.12 in (0.8 to 3.0 mm), ALL	HB	HB	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80.0 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	464 to 536 °F	240 to 280 °C
Mold Temperature	149 to 185 °F	65.0 to 85.0 °C

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Notes

¹ Typical values are not to be construed as specifications.² ±0.03³ Bergmann method⁴ 0.20 in/min (5.0 mm/min)

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