



Bergamid™ B75 W25 G50 black

Polyamide 6

Key Characteristics

General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Features	• Impact Modified
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density ²	1.54 g/cm ³	1.54 g/cm ³	DIN 53479
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	2.10E+6 psi	14500 MPa	ISO 527-2
Tensile Stress (Break)	27600 psi	190 MPa	ISO 527-2
Tensile Strain (Break)	2.1 %	2.1 %	ISO 527-2
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	9.5 ft·lb/in ²	20 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	43 ft·lb/in ²	90 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	
Melting Temperature	433 °F	223 °C	
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
Burning Rate ³ (0.118 in (3.00 mm))	< 3.9 in/min	< 100 mm/min	Internal Method
Flame Rating (0.12 in (3.0 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	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 ±0.03 g/cm³

³ internal method. Similar to FMVSS302

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