



Bergamid™ B70 G50 H Black

Polyamide 6

Key Characteristics

Product Description

Bergamid B70 G50 H Black is a Polyamide 6 (Nylon 6) product filled with 50% glass fiber. It can be processed by injection molding and it is heat stabilized.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Features	• Heat Stabilized
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.55 g/cm ³	1.55 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	2.18E+6 psi	15000 MPa	ISO 527-2
Tensile Strength	31900 psi	220 MPa	ISO 527
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527
Flexural Strength	42100 psi	290 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
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	410 °F	210 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	428 °F	220 °C	ISO 75-2/A
Continuous Use Temperature	248 °F	120 °C	IEC 216
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
Relative Permittivity	4.20	4.20	IEC 60250
Dissipation Factor	0.014	0.014	IEC 60250
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	4.0 hr	4.0 hr
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C

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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.

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