



Bergamid™ B70 G35 HW black SO2

Polyamide 6

Key Characteristics

Product Description

Bergamid B70 G35 HW Black SO2 is a Polyamide 6 (Nylon 6) product filled with 35% glass fiber. It can be processed by injection molding and its principal features are high heat and hydrolysis resistance.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Features	• Heat Stabilized • Hydrolysis Resistant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.41 g/cm ³	1.41 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus 73°F (23°C), 0.157 in (4.00 mm)	1.67E+6 psi	11500 MPa	ISO 527-2/1
Tensile Strength ² 73°F (23°C), 0.157 in (4.00 mm)	26800 psi	185 MPa	ISO 527
Tensile Strain ³ Break, 73°F (23°C), 0.157 in (4.00 mm)	> 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 ²	12 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)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	410 °F	210 °C	ISO 75-2/A
Melting Temperature (DSC)	428 °F	220 °C	ISO 3146
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+16 ohms·cm	1.0E+16 ohms·cm	IEC 60093
Relative Permittivity	3.70	3.70	IEC 60250
Dissipation Factor	0.015	0.015	IEC 60250
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

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	122 to 194 °F	50 to 90 °C

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)

³ 0.20 in/min (5 mm/min)