



Bergamid™ B70 G30 H Black UV Polyamide 6

Key Characteristics

Product Description

Bergamid B70 G30 H Black UV is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding and its features are heat and UV stabilized.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Heat Stabilized • UV Resistant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.36 g/cm ³	1.36 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	1.38E+6 psi	9500 MPa	ISO 527-2
Tensile Strength	26100 psi	180 MPa	ISO 527
Tensile Strain (Break)	3.5 %	3.5 %	ISO 527
Flexural Strength	36300 psi	250 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	3.8 ft·lb/in ²	8.0 kJ/m ²	
73°F (23°C)	4.8 ft·lb/in ²	10 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-22°F (-30°C)	38 ft·lb/in ²	80 kJ/m ²	
73°F (23°C)	43 ft·lb/in ²	90 kJ/m ²	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	< 428 °F	< 220 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	< 410 °F	< 210 °C	
Continuous Use Temperature	230 °F	110 °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
Electric Strength	2000 V/mil	80 kV/mm	IEC 60243-1
Relative Permittivity	3.80	3.80	IEC 60250
Dissipation Factor	0.023	0.023	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

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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	482 to 536 °F	250 to 280 °C
Mold Temperature	122 to 194 °F	50.0 to 90.0 °C

Notes

¹ Typical values are not to be construed as specifications.

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