



Bergamid™ B70 G/GK30 H BLACK

Polyamide 6

Key Characteristics

Product Description

Bergamid B70 G/GK30 H Black is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber + glass beads. It can be processed by injection molding and is heat stabilized.

General

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

Technical Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density ²	1.35	1.35	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	943000 (6500)	943000 (6500)	psi (MPa)	ISO 527-2
Tensile Stress	16000 (110)	16000 (110)	psi (MPa)	ISO 527-2
Tensile Strain (Break)	3.0	3.0	%	ISO 527
Flexural Stress	26100 (180)	26100 (180)	psi (MPa)	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.9 (6.0)	2.9 (6.0)	ft·lb/in ² (kJ/m ²)	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	19 (40)	19 (40)	ft·lb/in ² (kJ/m ²)	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	410 (210)	410 (210)	°F (°C)	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	374 (190)	374 (190)	°F (°C)	ISO 75-2/A
Melting Temperature (DSC)	419 to 437 (215 to 225)	419 to 437 (215 to 225)	°F (°C)	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	500	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.13 in (3.2 mm))	HB	HB		UL 94

Processing Information

Injection	Dry (English)	Dry (SI)
Drying Temperature	176 °F	80 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	122 to 194 °F	50 to 90 °C
Holding Pressure	7250 to 14500 psi	50.0 to 100 MPa

Notes

¹ Typical values are not to be construed as specifications.

² +/-0.02