Bergamid™ B70 G50 H Natural

Polyamide 6

Key Characteristics

Product Description	
Bergamid B70 G50 H Natural 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
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.55 g/cm³	1.55 g/cm³	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)	3.0 %	3.0 %	ISO 527
Flexural Strength	46400 psi	320 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	10 ft·lb/in²	22 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	43 ft·lb/in²	90 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	410 °F	210 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	428 °F	220 °C	
Melting Temperature (DSC)	428 to 437 °F	220 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
Dissipation Factor	0.013	0.013	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	482 to 536 °F	250 to 280 °C
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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