Bergamid™ B70 G60 Natural

Polyamide 6

Key Characteristics

Product Description	
Bergamid B70 G60 Natural is a Polyamide 6 (Nylon 6) product filled with 60% glass fiber. It can be processed by injection molding.	
General	
Material Status	• Commercial: Active
Regional Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 60% Filler by Weight
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density (73°F (23°C))	1.72 g/cm³	1.72 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	4.5 g/10 min	4.5 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	2.50 cm³/10min	2.50 cm³/10min	ISO 1133
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus			ISO 527-2/1
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	2.94E+6 psi	20300 MPa	
Tensile Strength [2]			ISO 527
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	34100 psi	235 MPa	
Tensile Strain [3]			ISO 527
Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	2.2 %	2.2 %	
Flexural Modulus	2.35E+6 psi	16200 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	5.7 ft·lb/in²	12 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	24 ft·lb/in²	50 kJ/m²	
Notched Izod Impact	3.6 ft·lb/in	190 J/m	ASTM D256
Notched Izod Impact Strength	8.6 ft·lb/in²	18 kJ/m²	ISO 180
Unnotched Izod Impact	28 ft·lb/in	1500 J/m	ASTM D256
Unnotched Izod Impact Strength	38 ft·lb/in²	80 kJ/m²	ISO 180
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	419 °F	215 °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

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.

[2] 0.20 in/min (5.0 mm/min)

[3] 0.20 in/min (5 mm/min)

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