



Bergamid™ A70 G50 H Natural Polyamide 66

Key Characteristics

Product Description

Bergamid A70 G50 H Natural is a Polyamide 66 (Nylon 66) 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
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.55 g/cm ³	1.55 g/cm ³	ISO 1183
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	2.39E+6 psi	16500 MPa	ISO 527-2
Tensile Strength	33400 psi	230 MPa	ISO 527
Tensile Strain (Break)	2.0 %	2.0 %	ISO 527
Flexural Strength	44200 psi	305 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	7.6 ft·lb/in ²	16 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C)	45 ft·lb/in ²	95 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	482 °F	250 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	482 °F	250 °C	ISO 75-2/A
Continuous Use Temperature	266 °F	130 °C	IEC 216
Melting Temperature (DSC)	491 to 509 °F	255 to 265 °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	2300 V/mil	90 kV/mm	IEC 60243-1
Relative Permittivity	3.70	3.70	IEC 60250
Dissipation Factor	0.030	0.030	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	80.0 °C

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Injection	Typical Value (English)	Typical Value (SI)
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	536 to 572 °F	280 to 300 °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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