

Bergamid™ B70 G50 Natural

Polyamide 6

PolyOne Corporation

Message:

Bergamid B70 G50 Natural is a Polyamide 6 (Nylon 6) product filled with 50% glass fiber. It can be processed by injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15000	MPa	ISO 527-2
Tensile Strength	220	MPa	ISO 527
Tensile Strain (Break)	3.0	%	ISO 527
Flexural Strength	320	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	22	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	90	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Continuous Use Temperature	110	°C	IEC 216
Melting Temperature (DSC)	220 to 225	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	90	kV/mm	IEC 60243-1
Relative Permittivity	4.20		IEC 60250
Dissipation Factor	0.013		IEC 60250
Comparative Tracking Index	500	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	250 to 280	°C	
Mold Temperature	50.0 to 90.0	°C	

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