

Bergamid™ A70 G50 HW Black

Polyamide 66

PolyOne Corporation

Message:

Bergamid A70 G50 HW Black is a Polyamide 66 (Nylon 66) product filled with 50% glass fiber. It can be processed by injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Appearance	Black		
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	230	MPa	ISO 527
Tensile Strain (Break)	< 2.0	%	ISO 527
Flexural Strength	305	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	80	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	> 245	°C	ISO 75-2/B
1.8 MPa, Unannealed	> 245	°C	ISO 75-2/A
Continuous Use Temperature	120 to 130	°C	IEC 216
Melting Temperature (DSC)	255 to 265	°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
Relative Permittivity	3.90		IEC 60250
Dissipation Factor	0.050		IEC 60250
Comparative Tracking Index	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	50.0 to 90.0	°C	

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