

Bergamid™ A70 G30 HR Black

Polyamide 66

PolyOne Corporation

Message:

Bergamid A70 G30 HR Black is a Polyamide 66 (Nylon 66) product filled with 30% glass fiber. It can be processed by injection molding and its principal features are heat and hydrolysis resistance.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Heat Stabilized		
	Hydrolysis Resistant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9500	MPa	ISO 527-2
Tensile Strength	180	MPa	ISO 527
Tensile Strain (Break)	3.0	%	ISO 527
Flexural Strength	260	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	75	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	250	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Melting Temperature (DSC)	255 to 265	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Relative Permittivity	3.70		IEC 60250
Dissipation Factor	0.015		IEC 60250
Comparative Tracking Index	500	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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