

Bergamid™ A70 G30 Black

Polyamide 66

PolyOne Corporation

Message:

Bergamid A70 G30 Black is a Polyamide 66 (Nylon 66) product filled with 30% glass fiber. It can be processed by injection molding.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Appearance	Black		
Forms	Particle		
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	10000	MPa	ISO 527-2
Tensile Strength	185	MPa	ISO 527
Tensile Strain (Break)	3.0	%	ISO 527
Flexural Strength	270	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	85	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	250	°C	ISO 75-2/B
1.8 MPa, not annealed	250	°C	ISO 75-2/A
Continuous Use Temperature	120	°C	IEC 216
Melting Temperature (DSC)	255 - 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
Dielectric Strength	90	kV/mm	IEC 60243-1
Relative Permittivity	3.70		IEC 60250
Dissipation Factor	0.018		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 - 300	°C	

Mold Temperature	50.0 - 90.0	°C
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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

