Bergamid™ B70 G30 H Natural UV

Polyamide 6

PolyOne Corporation

Message:

Bergamid B70 G30 H Natural UV is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding and its features are heat and UV stabilized.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good UV Resistance Heat Stabilized		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.35	g/cm³	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	250	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	12	kJ/m²	
23°C	15	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	80	kJ/m²	
23°C	90	kJ/m²	
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)	215 to 225	°C	ISO 3146
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
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	250 to 280	°C
Mold Temperature	50.0 to 90.0	°C

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