

Bergamid™ B700 G50 H

Polyamide 6
PolyOne Corporation

Message:

Bergamid™ B700 G50 H is a Polyamide 6 (Nylon 6) product filled with 50% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

RoHS Compliant

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
UL File Number	QMFZ2.E76261		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.55	g/cm ³	DIN 53479
Dimensional Stability	0.0	%	ISO 2796
K-Value ²	74.0 to 78.0		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	15000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	220	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/A
-30°C	17	kJ/m ²	
23°C	22	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	90	kJ/m ²	
23°C	100	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	216	°C	ISO 75-2/A
Maximum Use Temperature			IEC 60216
-- ³	120	°C	
Short Time	190	°C	
Melting Temperature (DSC)	223	°C	ISO 3146
RTI Elec ⁴	UL 746		
0.700 mm	105	°C	

1.50 mm	105	°C	
3.00 mm	105	°C	
RTI Imp ⁵			UL 746
0.700 mm	90.0	°C	
1.50 mm	90.0	°C	
3.00 mm	90.0	°C	
RTI Str ⁶			UL 746
0.700 mm	95.0	°C	
1.50 mm	110	°C	
3.00 mm	110	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Dielectric Strength			
--	24	kV/mm	ASTM D149
--	90	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	4.20		IEC 60250
Arc Resistance	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 1		UL 746
High Amp Arc Ignition (HAI) ⁷			UL 746
0.700 mm	PLC 0		
1.50 mm	PLC 0		
3.00 mm	PLC 0		
High Voltage Arc Tracking Rate (HVTR)	PLC 0		UL 746
Hot-wire Ignition (HWI) ⁸			UL 746
0.700 mm	PLC 4		
1.50 mm	PLC 3		
3.00 mm	PLC 3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			
0.700 mm, ALL	HB		UL 94
1.50 mm, ALL	HB		UL 94
3.00 mm, ALL	HB		UL 94
3.00 mm, ALL	HB40		IEC 60695-11-10, -20
0.700 mm, ALL	HB75		IEC 60695-11-10, -20
1.50 mm, ALL	HB75		IEC 60695-11-10, -20
NOTE			
1.	±0.03 g/cm ³		
2.	96% H2SO4		
3.	Continuous (GTP 50% Tensile)		
4.	ALL		
5.	ALL		

6.	ALL
7.	ALL
8.	ALL

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