

Bergamid™ B700 G15 H

Polyamide 6
PolyOne Corporation

Message:

Bergamid™ B700 G15 H is a Polyamide 6 (Nylon 6) product filled with 15% 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,15% 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	1.23	g/cm ³	DIN 53479
K-Value ²	74.0 to 78.0		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	130	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/A
-30°C	5.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	35	kJ/m ²	
23°C	35	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	205	°C	ISO 75-2/A
Maximum Use Temperature			IEC 60216
-- ³	120	°C	
Short Time	190	°C	
Melting Temperature (DSC)	223	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms · cm	IEC 60093

Electric Strength	80	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.70		IEC 60250
Comparative Tracking Index (Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 to 3.00 mm, ALL)	HB		UL 94
Glow Wire Flammability Index (0.400 to 3.00 mm)	650	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.400 to 3.00 mm)	675	°C	IEC 60695-2-13
NOTE			
1.	±0.03 g/cm ³		
2.	96% H2SO4		
3.	Continuous (GTP 50% Tensile)		

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