

Bergamid™ B700 G20 H UF

Polyamide 6

PolyOne Corporation

Message:

Bergamid™ B700 G20 H UF is a Polyamide 6 (Nylon 6) product filled with 20% glass fiber. It is available in Africa & Middle East, Asia Pacific, or Europe.

Characteristics include:

Flame Rated

RoHS Compliant

Flame Retardant

Halogen Free

Heat Stabilizer

General Information			
UL YellowCard	E76261-268400		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Flame Retardant		
	Halogen Free		
	Heat Stabilized		
	Low (to None) Phosphorus Content		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.36	g/cm³	DIN 53479
Molding Shrinkage			Internal Method
Flow : 3.00 mm	0.51 to 0.63	%	
Across Flow : 3.00 mm	0.59 to 0.72	%	
Ash Content	20	%	ISO 3451
Maximum Use Temperature			IEC 60216
-- ²	110	°C	
Short Time	190	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8300	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	95.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	2.1	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.4	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	53	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	220	°C	ISO 75-2/B

Melting Temperature (DSC)	223	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+12	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ALL)	V-0		Internal Method
Glow Wire Ignition Temperature ³ (3.00 mm)	960	°C	IEC 60695-2-13
NOTE			
1.	±0.03 g/cm ³		
2.	Continuous (GTP 50% Tensile)		
3.	0.8 mm wire		

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