

Bergamid™ B700 UF

Polyamide 6
PolyOne Corporation

Message:

Bergamid™ B700 UF is a Polyamide 6 (Nylon 6) product. It is available in Africa & Middle East, Asia Pacific, or Europe.
Characteristics include:
Flame Rated
RoHS Compliant
Flame Retardant
Halogen Free

General Information			
UL YellowCard	E76261-249963		
Features	Flame Retardant		
	Halogen Free		
	Low (to None) Phosphorus Content		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.18	g/cm ³	DIN 53479
K-Value ²	74.0 to 78.0		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	55.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	20	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.3	kJ/m ²	
23°C	8.4	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	190	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	°C	ISO 75-2/A
Maximum Use Temperature			IEC 60216
-- ³	85	°C	
Short Time	160	°C	
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

Electric Strength	45	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	7.00		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm, ALL)	V-0		Internal Method
Glow Wire Ignition Temperature ⁴ (3.00 mm)	960	°C	IEC 60695-2-13
NOTE			
1.	±0.03 g/cm ³		
2.	96% H ₂ SO ₄		
3.	Continuous (GTP 50% Tensile)		
4.	0.8 mm wire		

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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

