

Bergamid™ B700

Polyamide 6
PolyOne Corporation

Message:

Bergamid™ B700 is a Polyamide 6 (Nylon 6) product. It is available in Africa & Middle East, Asia Pacific, or Europe.

Characteristics include:

Flame Rated
RoHS Compliant

General Information			
UL YellowCard	E76261-249931		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.13	g/cm ³	DIN 53479
K-Value ²	74.0 to 78.0		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1100	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	22	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	170	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Maximum Use Temperature			IEC 60216
-- ³	75	°C	
Short Time	175	°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	60	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.30		IEC 60250

Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm, ALL)	V-2		Internal Method
NOTE			
1.	$\pm 0.03 \text{ g/cm}^3$		
2.	96% H ₂ SO ₄		
3.	Continuous (GTP 50% Tensile)		

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