

Bergamid™ B700 W25

Polyamide 6
PolyOne Corporation

Message:

Bergamid™ B700 W25 is a Polyamide 6 (Nylon 6) product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America.
Characteristics include:
Flame Rated
RoHS Compliant

General Information			
Features	Impact Modified		
RoHS Compliance	RoHS Compliant		
UL File Number	QMFZ2.E76261		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.10	g/cm ³	DIN 53479
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2900	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	70.0	MPa	ISO 527-2/50
Tensile Strain			
Yield, 23°C	4.0	%	ISO 527-2/50
Break, 23°C	25	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179/A
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
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
-- ²	65	°C	
Short Time	160	°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	100	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.40		IEC 60250
Comparative Tracking Index (Solution A)	600	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.	Continuous (GTP 50% Tensile)		

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