

Bergamid™ AB700 UF

Polyamide 66/6 Copolymer

PolyOne Corporation

Message:

Bergamid™ AB700 UF is a Polyamide 66/6 Copolymer (Nylon 66/6) 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	E76261-249970		
Features	Flame Retardant		
	Halogen Free		
	Low (to None) Phosphorus Content		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.20	g/cm ³	DIN 53479
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1600	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	50.0	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 (23°C)	3.0	kJ/m ²	ISO 179/1eA
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
-- ²	80	°C	
Short Time	180	°C	
Melting Temperature (DSC)	243	°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
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 (0.400 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.	0.4 mm wire		

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