

Bergamid™ AB700 UF SO

Polyamide 66/6 Copolymer

PolyOne Corporation

Message:

Bergamid™ AB700 UF SO 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
- Heat Stabilizer

General Information			
UL YellowCard	E76261-520235		
Additive	Heat Stabilizer		
Features	Flame Retardant		
	Good Flow		
	Halogen Free		
	Heat Stabilized		
	Low (to None) Phosphorus Content		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.20	g/cm³	DIN 53479
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	75.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	5.5	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	2.4	kJ/m²	
23°C	3.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	64	kJ/m²	
23°C	No Break		
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	115	°C	

Short Time	200	°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
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 Flammability Index ³ (0.800 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature ⁴ (0.800 mm)	725	°C	IEC 60695-2-13
NOTE			
1.	±0.02 g/cm ³		
2.	Continuous (GTP 50% Tensile)		
3.	Typical property for uncolored material, not to be construed as specification		
4.	Typical property for uncolored material, not to be construed as specification		

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