

Bergamid™ A700 G20 U-SO

Polyamide 66

PolyOne Corporation

Message:

Bergamid™ A700 G20 U-SO is a Polyamide 66 (Nylon 66) product filled with 20% glass fiber. 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			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Heat Stabilizer		
Features	Flame Retardant		
	Halogen Free		
	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.34	g/cm³	DIN 53479
Ash Content	20	%	ISO 3451
Maximum Use Temperature			IEC 60216
-- ²	120	°C	
Short Time	220	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	135	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m²	
23°C	7.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eA
-30°C	60	kJ/m²	
23°C ³	45	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	250	°C	ISO 75-2/B
Melting Temperature (DSC)	261	°C	ISO 3146

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	80	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50		IEC 60250
Dissipation Factor (1 MHz)	0.015		IEC 60250
Comparative Tracking Index (Solution A)	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.00 mm, ALL)	V-0		Internal Method
Glow Wire Flammability Index (0.800 to 3.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (3.00 mm)	775	°C	IEC 60695-2-13
NOTE			
1.	±0.02 g/cm ³		
2.	Continuous (GTP 50% Tensile)		
3.	Type 1		

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