

Bergamid™ A700 G15 HW UF

Polyamide 66
PolyOne Corporation

Message:

Bergamid™A700 G15 HW UF is a polyamide 66 (nylon 66) product, which contains a 15% glass fiber reinforced material. It is available in North America, Africa and the Middle East, Europe or Asia Pacific.

Features include:

flame retardant/rated flame

ROHS certification

Flame Retardant

heat stabilizer

Halogen-free

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
	Halogen-free		
	Flame retardancy		
RoHS Compliance	RoHS compliance		
UL File Number	E76261		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density ¹	1.31	g/cm ³	DIN 53479
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	105	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 (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	261	°C	ISO 3146
RTI Elec			UL 746
0.400 mm	65.0	°C	UL 746
0.750 mm	125	°C	UL 746
1.50 mm	125	°C	UL 746
3.00 mm	125	°C	UL 746
RTI Imp			UL 746
0.400 mm	65.0	°C	UL 746
0.750 mm	100	°C	UL 746

1.50 mm	110	°C	UL 746
3.00 mm	120	°C	UL 746
RTI			UL 746
0.400 mm	65.0	°C	UL 746
0.750 mm	105	°C	UL 746
1.50 mm	115	°C	UL 746
3.00 mm	125	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index (CTI) (3.00 mm)	PLC 0		UL 746
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			
0.400 mm, ALL	V-0		UL 94
0.750 mm, ALL	V-0		UL 94
1.50mm, all	V-0		Internal method
3.00 mm, ALL	V-0		UL 94
Glow Wire Ignition Temperature			IEC 60695-2-13
1.60 mm	960	°C	IEC 60695-2-13
3.00 mm ²	960	°C	IEC 60695-2-13
Additional Information			
These products contain flame retardants which are activated by longer residence times in the cylinder and then can decompose. At interruption of the moulding cycle (approx. >5 min) it is recommended to jet melt completely and to clean the cylinder, e.g. with a standard polyamide.			
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	80.0	°C	
Drying Time - Desiccant Dryer	3.0 - 4.0	hr	
Processing (Melt) Temp	260 - 280	°C	
Mold Temperature	60.0 - 90.0	°C	
Holding Pressure	40.0 - 90.0	MPa	
NOTE			
1.	±0.03 g/cm ³		
2.	0.8mm wire		

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