

Bergamid™ A700 G20 HW UF

Polyamide 66
PolyOne Corporation

Message:

Bergamid™ A700 G20 HW UF is a Polyamide 66 (Nylon 66) product filled with 20% glass fiber. It can be processed by extrusion or injection molding and is available in Africa & Middle East, Asia Pacific, Europe, or North America. Typical application: Outdoor Applications.

Characteristics include:

- Flame Rated
- RoHS Compliant
- Flame Retardant
- Halogen Free

General Information		
UL YellowCard	E76261-101070494	E76261-464118
Filler / Reinforcement	Glass Fiber,20% Filler by Weight	
Features	Flame Retardant	
	Halogen Free	
	Heat Stabilized	
	Hydrolysis Resistant	
RoHS Compliance	RoHS Compliant	
UL File Number	E76261	
Forms	Pellets	
Processing Method	Extrusion	
	Injection Molding	

Physical	Dry	Conditioned	Unit	Test Method
Density ¹	1.34	--	g/cm ³	DIN 53479
Outdoor Suitability (Black)	f1	--		UL 746C
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8000	7200	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	115	--	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	--	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A

Vicat Softening Temperature	245	--	°C	ISO 306/A50, ISO 306/B50
Melting Temperature (DSC)	261	--	°C	ISO 3146
RTI Elec				UL 746
0.750 mm	125	--	°C	
1.50 mm	125	--	°C	
3.00 mm	125	--	°C	
RTI Imp				UL 746
0.750 mm	100	--	°C	
1.50 mm	110	--	°C	
3.00 mm	120	--	°C	
RTI Str				UL 746
0.750 mm	105	--	°C	
1.50 mm	115	--	°C	
3.00 mm	125	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms · cm	IEC 60093
Comparative Tracking Index (CTI)	PLC 1	--		UL 746
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.400 mm, ALL	V-0	V-0		
0.750 mm, ALL	V-0	V-0		
1.50 mm, ALL	V-0	V-0		
3.00 mm, ALL	V-0	V-0		
Glow Wire Flammability Index				IEC 60695-2-12
0.400 mm	960	--	°C	
0.800 mm	960	--	°C	
1.60 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.800 mm	725	--	°C	
1.60 mm	725	--	°C	
3.00 mm	750	--	°C	
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	3.0 to 4.0		hr	
Processing (Melt) Temp	260 to 280		°C	
Mold Temperature	60.0 to 90.0		°C	
Holding Pressure	40.0 to 90.0		MPa	

NOTE

1. $\pm 0.03 \text{ g/cm}^3$

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