

Badamid® UL A703 GF25 FR HF

Polyamide 66

Bada AG

Message:

Badamid® UL A703 GF25 FR HF is a Polyamide 66 (Nylon 66) material filled with 25% glass fiber. It is available in Europe for injection molding.

Important attributes of Badamid® UL A703 GF25 FR HF are:

Flame Rated

Flame Retardant

Halogen Free

General Information				
UL YellowCard		E189230-101549547		
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogen Free		
Processing Method		Injection Molding		
Part Marking Code		PA66-GF25 FR		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	2.2	--	%	
Equilibrium, 23°C, 50% RH	6.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	8800	6000	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	115	85.0	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	2.5	3.5	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ³				ISO 179/1eA
-30°C	6.0	--	kJ/m ²	
23°C	7.0	9.0	kJ/m ²	
Charpy Unnotched Impact Strength ⁴				ISO 179/1eU
-30°C	47	--	kJ/m ²	
23°C	55	65	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ⁵				

0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	--	°C	ISO 75-2/A
Melting Temperature (DSC) 6	262	--	°C	ISO 3146
Maximum Service Temperature				IEC 216
20000 hrs	130	--	°C	
some hours	240	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁷	--	1.0E+12	ohms	IEC 60093
Volume Resistivity ⁸	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Electric Strength ⁹	45	35	kV/mm	IEC 60243-1
Relative Permittivity ¹⁰ (1 MHz)	3.50	4.60		IEC 60250
Dissipation Factor ¹¹ (1 MHz)	0.017	0.10		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.400 mm ¹²	V-0	--		
0.800 mm ¹³	V-0	--		
Glow Wire Flammability Index (0.400 to 3.00 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.50 mm)	775	--	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	60.0 to 100		°C	
NOTE				
1.	Test Specimen according to ISO 3167, Type A			
2.	Test Specimen according to ISO 3167, Type A			
3.	80x10x4 mm			
4.	80x10x4 mm			
5.	110x10x4 mm			
6.	10 K/min, Compound for moulding			
7.	80x80x1 mm			
8.	80x80x1 mm			
9.	80x80x1 mm			
10.	80x80x1 mm			

11.	80x80x1 mm
12.	125x13x0.8 mm
13.	125x13x1.6 mm

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