

Badamid® UL A703 GF30 FR HF

Polyamide 66

Bada AG

Message:

Badamid® UL A703 GF30 FR HF is a Polyamide 66 (Nylon 66) material filled with 30% glass fiber. It is available in Europe for injection molding.

Important attributes of Badamid® UL A703 GF30 FR HF are:

Flame Rated

Flame Retardant

Halogen Free

General Information				
UL YellowCard		E189230-101549548		
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogen Free		
Processing Method		Injection Molding		
Part Marking Code		PA66-GF30 FR		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	6.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9800	6400	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	125	90.0	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 (23°C)	6.0	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴ (23°C)	55	65	kJ/m ²	ISO 179/1eU
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 (1.50 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 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	285 to 300		°C	
Mold Temperature	60.0 to 100		°C	
NOTE				
1.	Test Specimen accordng to ISO 3167, Type A			
2.	Test Specimen accordng 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			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

