

Badamid® UL A703 GF35 FR HF

Polyamide 66

Bada AG

Message:

Badamid® UL A703 GF35 FR HF is a Polyamide 66 (Nylon 66) material filled with 35% glass fiber. It is available in Europe.

Important attributes of Badamid® UL A703 GF35 FR HF are:

Flame Rated

Flame Retardant

Halogen Free

General Information				
UL YellowCard		E189230-101549549	E189230-101763804	
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogen Free		
Part Marking Code		PA66-GF35 FR		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.51	--	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)	10500	7900	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	140	105	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	2.0	2.8	%	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)	60	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 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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