

Badamid® A702 GF25 FR HF

Polyamide 66

Bada AG

Message:

Badamid® A702 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® A702 GF25 FR HF are:

Flame Rated

Flame Retardant

Halogen Free

General Information				
UL YellowCard		E189230-101254177		
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	1.44	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	5.7	--	%	
Equilibrium, 23°C, 50% RH	1.3	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	190	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	9200	7200	MPa	ISO 527-2/1
Tensile Stress ¹ (Break, 23°C)	140	105	MPa	ISO 527-2/5
Tensile Strain ² (Break, 23°C)	3.0	4.5	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	12	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴				ISO 179/1eU
-30°C	50	--	kJ/m ²	
23°C	60	65	kJ/m ²	
Notched Izod Impact Strength ⁵ (23°C)	9.0	15	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature ⁶				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
Melting Temperature (DSC) ⁷				
	262	--	°C	ISO 3146
CLTE				DIN 53752
Flow	2.8E-5	--	cm/cm/°C	
Transverse	6.5E-5	--	cm/cm/°C	
Maximum Service Temperature				IEC 216
20000 hrs	130	--	°C	
some hours	220	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ⁸	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity ⁹	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength ¹⁰	33	30	kV/mm	IEC 60243-1
Relative Permittivity ¹¹ (1 MHz)	3.70	5.00		IEC 60250
Dissipation Factor ¹² (1 MHz)	0.020	0.10		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.750 mm ¹³	V-0	--		
1.50 mm ¹⁴	V-0	--		
Glow Wire Flammability Index (1.00 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	800	--	°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	70.0 to 90.0		°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.	80x10x4 mm			
6.	110x10x4 mm			

7.	10 K/min, Compound for moulding
8.	80x80x1 mm
9.	80x80x1 mm
10.	80x80x1 mm
11.	80x80x1 mm
12.	80x80x1 mm
13.	125x13x0.8 mm
14.	125x13x1.6 mm

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