

NILAMID® A3 GF50

Polyamide 66

Nilit Plastics

Message:

NILAMID® A3 GF50 is a Polyamide 66 (Nylon 66) compound, 50% glass fiber reinforced, heat stabilized, UL listed HB.

This compound is intended for injection molding.

NILAMID® A3 GF50 is primarily designed for the Automotive industry. It is also suitable for Electrical and Electronic or Industrial & Consumer applications.

General Information			
UL YellowCard	E172252-225912		
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.57	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	0.55	%	
Flow : 23°C	0.30	%	
Water Absorption			ISO 62
23°C, 24 hr	0.80	%	
Saturation, 23°C	4.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	17000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	225	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.2	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	14	kJ/m ²	
23°C	17	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
23°C	70	kJ/m ²	
30°C	58	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	13	kJ/m ²	

23°C	16	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	265	°C	ISO 75-2/B
1.8 MPa, Unannealed	260	°C	ISO 75-2/A
Continuous Use Temperature ¹	130	°C	IEC 60216
Ball Pressure Test			IEC 60695-10-2
125°C	Pass		
165°C	Pass		
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ²	1.0E+12	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	22	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.60 mm	HB		
3.20 mm	HB		
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	650	°C	
3.20 mm	650	°C	
Oxygen Index	27	%	ISO 4589-2
Flammability ³	B28		FMVSS 302
NOTE			
1.	20000 hr		
2.	23°C		
3.	355x100x1mm		

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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



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