

NILAMID® A3 J10 GF13

Polyamide 66

Nilit Plastics

Message:

NILAMID® A3 J10 GF13 is a Polyamide 66 (Nylon 66) compound, 13% glass fiber reinforced, impact modified, UL listed HB.

This compound is intended for injection molding.

NILAMID® A3 J10 GF13 is primarily designed for the Automotive industry. It is also suitable for Industrial & Consumer applications.

General Information			
UL YellowCard	E172252-100074710		
Filler / Reinforcement	Glass Fiber,13% Filler by Weight		
Features	High Impact Resistance		
Uses	Automotive Applications		
	Consumer Applications		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.20	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	0.80	%	
Flow : 23°C	0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	90.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	12	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	238	°C	ISO 75-2/A
Continuous Use Temperature ¹	95.0	°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
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	
Flammability ³	B65		FMVSS 302
NOTE			
1.	20000 hr		
2.	23°C		
3.	355x100x1mm		

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