

FRIANYL® A3 GF50 V0P1

Polyamide 66

Nilit Plastics

Message:

FRIANYL® A3 GF50 V0P1 is a Polyamide 66 (Nylon 66) compound, 50% glass fiber reinforced, flame retardant with red phosphorous and low phosphate release.

This compound is intended for injection molding.

FRIANYL® A3 GF50 V0P1 is primarily designed for the Electrical and Electronic industry. It is also suitable for Automotive or Industrial & Consumer applications.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.58	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	0.50	%	
Flow : 23°C	0.30	%	
Water Absorption			ISO 62
23°C, 24 hr	0.50	%	
Saturation, 23°C	2.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	15000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	210	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.5	kJ/m ²	
23°C	12	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
23°C	55	kJ/m ²	
30°C	48	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	11	kJ/m ²	

23°C	14	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	261	°C	ISO 75-2/B
1.8 MPa, Unannealed	255	°C	ISO 75-2/A
Continuous Use Temperature ¹	125	°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+13	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	21	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	600	V	IEC 60112
Needle Flame Test			IEC 60695-11-5
1.00 mm	Pass		
2.00 mm	Pass		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-0		
1.60 mm	V-0		
3.20 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	960	°C	
3.20 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	775	°C	
3.20 mm	825	°C	
Oxygen Index	31	%	ISO 4589-2
Flammability ³	SE		FMVSS 302
NOTE			
1.	20000 hr		
2.	23°C		
3.	355x100x1mm		

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