

FRIANYL® A3 V2XI

Polyamide 66

Nilit Plastics

Message:

FRIANYL® A3 V2XI is an unfilled Polyamide 66 (Nylon 66) compound, flame retardant with halogens, free from antimony trioxide, PBB and PBDE, UL listed V2.

It is VDE certified.

This compound is intended for injection molding.

FRIANYL® A3 V2XI is primarily designed for the Electrical and Electronic industry. It is also suitable for Automotive or Industrial & Consumer applications.

General Information			
UL YellowCard	E172252-463050		
Additive	Flame Retardant		
Features	Antimony Free		
	Flame Retardant		
	Halogenated		
Uses	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.28	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.0	%	
Flow : 23°C	1.0	%	
Water Absorption			ISO 62
23°C, 24 hr	1.0	%	
Saturation, 23°C	6.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	53.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	15	%	
Break, 23°C	> 30	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.5	kJ/m ²	
23°C	6.0	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179/1eU
23°C	75	kJ/m ²	
30°C	65	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	5.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	230	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	°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+13	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	20	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	400	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-2		
1.60 mm	V-2		
3.20 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	850	°C	
3.20 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	875	°C	
3.20 mm	900	°C	
Oxygen Index	34	%	ISO 4589-2
Flammability ³	SE		FMVSS 302
NOTE			
1.	20000 hr		
2.	23°C		
3.	355x100x1mm		

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