

FRIANYL® A3 V0XI

Polyamide 66

Nilit Plastics

Message:

FRIANYL® A3 V0XI is an unfilled Polyamide 66 (Nylon 66) compound, 25% flame retardant with halogens, free from antimony trioxide, PBB and PBDE, UL listed V0.

This compound is intended for injection molding.

FRIANYL® A3 V0XI is primarily designed for the Electrical and Electronic industry. It is also suitable for Automotive or Industrial & Consumer applications.

General Information			
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)	1.30	g/cm³	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)	3000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	56.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	2.5	%	
Break, 23°C	4.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	35	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	3.0	kJ/m²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	235	°C	ISO 75-2/B

1.8 MPa, Unannealed	95.0	°C	ISO 75-2/A
Ball Pressure Test			IEC 60695-10-2
125°C	Pass		
165°C	Pass		
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹	1.0E+13	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index (3.20 mm, Solution A)	350	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
0.400 mm	V-0		
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	800	°C	
3.20 mm	775	°C	
Oxygen Index	34	%	ISO 4589-2
NOTE			
1.	23°C		

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Recommended distributors for this material

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

