

FRIANYL® A3 RV0

Polyamide 66
Nilit Plastics

Message:

FRIANYL® A3 RV0 is an unfilled Polyamide 66 (Nylon 66) compound, heat stabilized, flame retardant, halogen and red phosphorous free, UL listed V0. It is VDE certified. It is also certified according to railways requirements EN45545-2 and NFF 16-101. This compound is intended for injection molding. FRIANYL® A3 RV0 is primarily designed for the Electrical and Electronic industry. It is also suitable for Automotive or Industrial & Consumer applications.

General Information			
UL YellowCard	E172252-100760314	E86034-251983	E331274-100305882
	E172252-101977597		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Flame Retardant		
	Halogen Free		
	Heat Stabilized		
	Low (to None) Phosphorus Content		
Uses	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.15	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.6	%	
Flow : 23°C	1.5	%	
Water Absorption			ISO 62
23°C, 24 hr	1.4	%	
Saturation, 23°C	6.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	85.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	12	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.0	kJ/m ²	

23°C	3.5	kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU	
23°C	No Break		
30°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	185	°C	ISO 75-2/B
1.8 MPa, Unannealed	85.0	°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)	25	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
0.400 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	775	°C	
3.20 mm	775	°C	
Oxygen Index	33	%	ISO 4589-2
Flammability ³	SE	FMVSS 302	
NOTE			
1.	20000 hr		
2.	23°C		
3.	355x100x1mm		

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