

FRIANYL® A GF25 V0P3

Polyamide 66

Nilit Plastics

Message:

FRIANYL® A GF25 V0P3 is a Polyamide 66 (Nylon 66) material filled with 25% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of FRIANYL® A GF25 V0P3 are:

Flame Rated

Eco-Friendly/Green

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Recycled Content	Yes		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	0.80	%	
Flow : 25°C	0.60	%	
Water Absorption			ISO 62
23°C, 24 hr	0.80	%	
Saturation, 23°C	5.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6350	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	110	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	2.5	kJ/m ²	
23°C	4.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	14	kJ/m ²	
23°C	22	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	3.5	kJ/m ²	
23°C	4.5	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	250	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	°C	ISO 75-2/A
Continuous Use Temperature ¹	110	°C	IEC 60216
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	20	kV/mm	IEC 60243-1
Comparative Tracking Index	500	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
1.60 mm, NC, BK	V-2		
3.20 mm, NC, BK	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	850	°C	
3.20 mm	850	°C	
Glow Wire Ignition Temperature (3.20 mm)	750	°C	IEC 60695-2-13
Oxygen Index	28	%	ISO 4589-2
Flammability ²	SE		FMVSS 302
NOTE			
1.	20000 hrs		
2.	355 x 100 x 1mm		

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