

NILAMID® A3 GB30 TF20

Polyamide 66

Nilit Plastics

Message:

NILAMID® A3 GB30 TF20 is a Polyamide 66 (Nylon 66) compound, 30% glass bead reinforced, low wear and friction with 20% PTFE, UL listed HB.

This compound is intended for injection molding.

NILAMID® A3 GB30 TF20 is primarily designed for the Industrial and Consumer industry. It is also suitable for Electrical and Electronic or Automotive applications.

General Information			
UL YellowCard	E172252-463202		
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
Additive	PTFE Lubricant (20%)		
Features	Good Wear Resistance		
	Low Friction		
	Lubricated		
Uses	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.50	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.1	%	
Flow : 23°C	1.1	%	
Water Absorption			ISO 62
23°C, 24 hr	0.40	%	
Saturation, 23°C	4.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	4500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	65.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	4.0	%	
Break, 23°C	8.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.5	kJ/m ²	
23°C	4.0	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179/1eU
23°C	14	kJ/m ²	
30°C	13	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	3.2	kJ/m ²	
23°C	4.0	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	110	°C	ISO 75-2/A
Continuous Use Temperature ¹	100	°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)	18	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.400 mm, NC	HB		
0.800 mm	HB		
1.60 mm, NC	HB		
3.20 mm	HB		
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	650	°C	
3.20 mm	650	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	675	°C	
3.20 mm	675	°C	
Oxygen Index	27	%	ISO 4589-2
NOTE			
1.	20000 hr		
2.	23°C		

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