

Nilamid® A3 GF30 TM2

Polyamide 66

Celanese Corporation

PROSPECTOR®

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Technical Data

Product Description

NILAMID® A3 GF30 TM2 is a Polyamide 66 (Nylon 66) compound, 30% glass fiber reinforced, low wear and friction with molybdenum disulphide.

This compound is intended for injection molding.

NILAMID® A3 GF30 TM2 is primarily designed for the Industrial and Consumer industry. It is also suitable for Electrical and Electronic or Automotive applications.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English) • Technical Datasheet (German) • Technical Datasheet (Italian)
Search for UL Yellow Card	• Celanese Corporation • Nilamid®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Molybdenum Disulfide Lubricant: 2%
Features	• Low Friction • Lubricated • Wear Resistant
Uses	• Automotive Applications • Consumer Applications • Electrical/Electronic Applications • Industrial Applications
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density (23°C)	1.37 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow : 23°C	0.80 %	
Flow : 23°C	0.30 %	
Water Absorption		ISO 62
24 hr, 23°C	0.60 %	
Saturation, 23°C	5.0 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (23°C)	8500 MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	135 MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0 %	ISO 527-2

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	5.5 kJ/m ²	
23°C	6.5 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	28 kJ/m ²	
23°C	35 kJ/m ²	
Notched Izod Impact Strength		ISO 180/A
-30°C	6.0 kJ/m ²	
23°C	8.0 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	260 °C	ISO 75-2/B
1.8 MPa, Unannealed	254 °C	ISO 75-2/A
Continuous Use Temperature ³	110 °C	IEC 60216
Ball Pressure Test		IEC 60695-10-2
125°C	Pass	
165°C	Pass	



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Electrical	Nominal Value Unit	Test Method
Surface Resistivity ⁴	1.0E+13 ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15 ohms·cm	IEC 60093
Electric Strength (2.00 mm)	21 kV/mm	IEC 60243-1
Comparative Tracking Index 3.20 mm, Solution A	500 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.8 mm	HB	
1.6 mm	HB	
3.2 mm	HB	
Glow Wire Flammability Index		IEC 60695-2-12
0.8 mm	650 °C	
3.2 mm	650 °C	
Oxygen Index	27 %	ISO 4589-2

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 20000 hr

⁴ 23°C



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Where to Buy

Supplier

Celanese Corporation

Florence, KY USA

Telephone: 800-833-4882

Web: <http://www.celanese.com/engineered-materials>

Distributor

SNETOR Distribution

SNETOR Distribution is a Pan European distribution company. Contact SNETOR for availability of individual products by country.

Telephone: +33-1-4904-8888

Web: <http://www.snetor.com/>

Availability: Czech Republic, France, Hungary, Poland, Slovenia, Ukraine, United Kingdom

