

Frianyl® A3 H S30 VOXI NC 1101/A

Polyamide 66

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

PA66, 30% mineral reinforced, heat stabilized, flame retardant V0, with halogen.
Car industry, Household appliances, Electrical devices.

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E331274-102483067 • E86034-102512457
Search for UL Yellow Card	• Celanese Corporation • Frianyl®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Mineral
Additive	• Flame Retardant
Features	• Flame Retardant

Physical	Nominal Value Unit	Test Method
Density	1.54 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	0.70 to 0.80 %	
Flow	0.40 to 0.50 %	
Water Absorption		ISO 62
Saturation, 23°C	4.4 %	
Equilibrium, 23°C, 50% RH	1.4 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	6100 MPa	ISO 527-1/1A
Tensile Stress (Break)	65.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	4.0 %	ISO 527-2/1A/5
Flexural Modulus (23°C)	5500 MPa	ISO 178
Flexural Stress at Max. Force	80.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	17 kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	2.5 kJ/m ²	ISO 180/1A

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	220 °C	ISO 75-2/B
1.8 MPa, Unannealed	210 °C	ISO 75-2/A
Continuous Use Temperature	125 °C	DIN/IEC 60216-1
Melting Temperature ³	260 °C	ISO 11357-3

Electrical	Nominal Value Unit	Test Method
Comparative Tracking Index ⁴	500 V	IEC 60112

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.8 mm	V-0	
1.6 mm	V-0	
3.2 mm	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0.8 mm	960 °C	
3.2 mm	960 °C	



Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

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

³ 20°C/min

⁴ 50 drops



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Where to Buy

Supplier

Celanese Corporation

Florence, Florence USA

Telephone: 800-833-4882

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

Distributor

RESINEX Group

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

Telephone: +32-14-672511

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

Availability: Europe

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: Bulgaria, Croatia, Czech Republic, France, Hungary, Poland, Romania, Serbia, Slovakia, Slovenia

