

Celanyl® A3 GF30 NC 1102/Z

Polyamide 66

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Polyamide 66 compound, 30% glass fiber reinforced, UL listed HB@0.69mm
General purpose compound for injection molding, suitable for Automotive, E&E and Industrial & Consumer applications.

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E331274-102483064 • E86034-102512454
Search for UL Yellow Card	• Celanese Corporation • Celanyl®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber
Uses	• Automotive Applications
Forms	• Granules
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.37 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	0.70 to 0.90 %	
Flow	0.30 to 0.70 %	
Water Absorption		ISO 62
Saturation, 23°C	5.6 %	
Equilibrium, 23°C, 50% RH	1.5 %	
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	9500 MPa	ISO 527-1/1A
Tensile Stress (Break)	180 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5 %	ISO 527-2/1A/5
Flexural Modulus (23°C)	8500 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	12 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	55 kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	11 kJ/m ²	ISO 180/1A
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	260 °C	ISO 75-2/B
1.8 MPa, Unannealed	250 °C	ISO 75-2/A
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	> 1.0E+15 ohms·cm	IEC 60093
Electric Strength	16 kV/mm	IEC 60243-1
Comparative Tracking Index ³	600 V	IEC 60112



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Flammability	Nominal Value Unit	Test Method
Burning Rate ⁴ (1.00 mm)	30 mm/min	ISO 3795
Flame Rating		UL 94
0.69 mm	HB	
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	
FMVSS Flammability ⁵	B	FMVSS 302

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 50 drops

⁴ FMVSS 302

⁵ ISO 3795



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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

