

Celanyl® A3 WR GF30 NC 1102/E

Polyamide 66

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Polyamide 66 compound, 30% glass fibre reinforced, peroxide stabilized. UL certified HB@0.73mm.

Designed for any technical application requiring long term heat resistance packed with prime quality mechanical performances.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E331274-102483071 • E86034-102512461
Search for UL Yellow Card	• Celanese Corporation • Celanyl®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber
Features	• Good Heat Resistance
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	0.60 to 0.90 %	
Flow	0.30 to 0.60 %	
Water Absorption		ISO 62
Saturation, 23°C	5.9 %	
Equilibrium, 23°C, 50% RH	1.7 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	9800 MPa	ISO 527-1
Tensile Stress (Break)	185 MPa	ISO 527-2/5
Tensile Strain (Break)	2.5 %	ISO 527-2/5
Flexural Modulus (23°C)	8500 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	10 kJ/m ²	
23°C	13 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	42 kJ/m ²	
23°C	55 kJ/m ²	
Notched Izod Impact Strength		ISO 180/1A
-30°C	8.0 kJ/m ²	
23°C	11 kJ/m ²	

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
Melting Temperature ⁴	265 °C	ISO 11357-3

Electrical	Nominal Value Unit	Test Method
Surface Resistivity (23°C)	1.0E+13 ohms	IEC 62631-3-2
Volume Resistivity (23°C)	1.0E+13 ohms·m	IEC 62631-3-1



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Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.8 mm	HB	
3.2 mm	HB	
FMVSS Flammability ⁵	B	FMVSS 302

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 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.

³ Typical properties: these are not to be construed as specifications.

⁴ 20°C/min

⁵ ISO 3795



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Where to Buy

Supplier

Celanese Corporation

Florence, Florence USA

Telephone: 800-833-4882

Web: <https://www.celanese.com/>

Distributor

Amco Polymers

Telephone: 800-262-6685

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

Availability: North America

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

SNETOR 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

