# Celanyl® B3 GF30 NC 1102/S



## **Celanese Corporation**



#### **Technical Data**

Product Description							
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Polyamide 6 compound, 30% glass fiber reinforced, UL listed HB@0.75mm. General purpose grade, suitable for any technical application.

General			
Material Status	Commercial: Active		
UL Yellow Card <sup>1</sup>	<ul><li>E331274-102483073</li><li>E86034-102512463</li></ul>		
Search for UL Yellow Card	<ul><li>Celanese Corporation</li><li>Celanyl®</li></ul>		
Availability	<ul><li>Africa &amp; Middle East</li><li>Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Filler / Reinforcement	Glass Fiber		
Uses	<ul> <li>Automotive Applications</li> </ul>		
Forms	Granules		

Processing Method	<ul> <li>Injection Molding</li> </ul>

Physical	Nominal Value Unit	Test Method
Density	1.35 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	1.35 g/cm³  0.60 to 1.0 % 0.20 to 0.60 %  6.3 % 1.8 % 140 cm³/g  Nominal Value Unit  9500 MPa 180 MPa 3.5 %  Nominal Value Unit  9.0 kJ/m² 13 kJ/m² > 60 kJ/m² 14 kJ/m²  Nominal Value Unit  180 MPa Nominal Value Unit  220 °C 210 °C 225 °C  Nominal Value Unit  1.0E+13 ohms 1.0E+15 ohms·cm PLC 1	
Flow	0.20 to 0.60 %	
Water Absorption		ISO 62
Saturation, 23°C	6.3 %	
Equilibrium, 23°C, 50% RH	1.8 %	
Viscosity Number (H2SO4 (Sulphuric Acid))	140 cm³/g	ISO 307
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)	3.5 %	ISO 527-2/1A/5
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	9.0 kJ/m²	
23°C	13 kJ/m²	
Charpy Unnotched Impact Strength (23°C)	> 60 kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength (23°C)	14 kJ/m²	ISO 180/1A
Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness <sup>3</sup>		ISO 2039-1
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
Melting Temperature <sup>4</sup>	225 °C	ISO 11357-3
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+13 ohms	IEC 60093
Volume Resistivity	1.0E+15 ohms·cm	IEC 60093
Comparative Tracking Index (CTI)	PLC 1	UL 746A
Comparative Tracking Index		IEC 60112
5	550 V	
6	525 V	
Comparative Tracking Index	Group II	IEC 60112

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Polyamide 6

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www.ulprospector.com

Flammability	Nominal Value Unit	Test Method	
Flame Rating (0.8 mm)	НВ	UL 94	

#### **Notes**

<sup>1</sup> 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.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 30s

4 20°C/min

<sup>5</sup> 50 drops

<sup>6</sup> 100 drops



Form No. TDS-345795-en

### Celanyl® B3 GF30 NC 1102/S

Polyamide 6

#### **Celanese Corporation**



#### 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



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