

# Celanyl® A2 GF30 BK 9005/NX

Polyamide 66

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Polyamide 66 compound, 30% glass fibre reinforced.  
General purpose grade, suitable for any technical use.

### General

|                           |  |
|---------------------------|--|
| Material Status           | • Commercial: Active   |
| Literature <sup>1</sup>   | • <a href="#">Technical Datasheet</a>  |
| Search for UL Yellow Card | • <a href="#">Celanese Corporation</a><br>• <a href="#">Celanyl®</a>                       |
| Availability              | • Africa & Middle East<br>• Asia Pacific<br>• Europe<br>• Latin America<br>• North America |
| Filler / Reinforcement    | • Glass Fiber  |
| Forms                     | • Granules   |
| Processing Method         | • Injection Molding  |

| Physical                  | Nominal Value Unit     | Test Method |
|---------------------------|------------------------|-------------|
| Density                   | 1.37 g/cm <sup>3</sup> | 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          | 5.7 %                  |             |
| Equilibrium, 23°C, 50% RH | 1.6 %                  |             |

| Mechanical              | Nominal Value Unit | Test Method |
|-------------------------|--------------------|-------------|
| Tensile Modulus         | 9000 MPa           | ISO 527-1   |
| Tensile Stress (Break)  | 175 MPa            | ISO 527-2/5 |
| Tensile Strain (Break)  | 2.5 %              | ISO 527-2/5 |
| Flexural Modulus (23°C) | 8500 MPa           | ISO 178     |
| Flexural Stress (23°C)  | 255 MPa            | ISO 178     |

| Impact                                  | Nominal Value Unit    | Test Method |
|---|-----------------------|-------------|
| Charpy Unnotched Impact Strength (23°C) | 50 kJ/m <sup>2</sup>  | ISO 179/1eU |
| Notched Izod Impact Strength (23°C)     | 9.0 kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact Strength (23°C)   | 55 kJ/m <sup>2</sup>  | ISO 180/1U  |

| 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  |

| Flammability          | Nominal Value Unit | Test Method |
|-----------------------|--------------------|-------------|
| Flame Rating (0.8 mm) | HB                 | UL 94       |

## Notes

<sup>1</sup> 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.

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



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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

#### 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 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

