

Celanyl® B3 W GF30 BK 9005/U

Polyamide 6

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Car industry, Household appliances, Electrical devices.

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E86034-251977 • E331274-103610518
Search for UL Yellow Card	• Celanese Corporation • Celanyl®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber

Physical	Nominal Value Unit	Test Method
Density	1.35 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	0.80 to 1.1 %	
Flow	0.20 to 0.50 %	
Water Absorption		ISO 62
Saturation, 23°C	6.4 %	
Equilibrium, 23°C, 50% RH	1.6 %	
Viscosity Number (H2SO4 (Sulphuric Acid))	145 cm ³ /g	ISO 307
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	9400 MPa	ISO 527-1/1A
Tensile Stress (Break)	155 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0 %	ISO 527-2/1A/5
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	ISO 179/1eU
Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness ³	200 MPa	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 ⁴	225 °C	ISO 11357-3
Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+15 ohms·cm	IEC 60093
Comparative Tracking Index ⁵	550 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.6 mm)	HB	UL 94

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 30s

⁴ 20°C/min

⁵ 50 drops



Celanyl® B3 W GF30 BK 9005/U

Polyamide 6

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

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

