

Celanyl® B3 H GF15 BK 9005/H

Polyamide 6

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

PA6 for injection molding, 15% glass fiber reinforced, heat stabilized Car industry, Household appliances, Electrical devices.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• Celanese Corporation • Celanyl®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)

Physical	Nominal Value Unit	Test Method
Density	1.24 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	0.90 to 1.3 %	
Flow	0.50 to 0.90 %	
Water Absorption		ISO 62
Saturation, 23°C	7.5 %	
Equilibrium, 23°C, 50% RH	1.9 %	
Viscosity Number (H2SO4 (Sulphuric Acid))	145 cm ³ /g	ISO 307
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	5800 MPa	ISO 527-1
Tensile Stress (Break)	125 MPa	ISO 527-2/5
Tensile Strain (Break)	2.5 %	ISO 527-2/5
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35 kJ/m ²	ISO 179/1eU
Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness ³	160 MPa	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	215 °C	ISO 75-2/B
1.8 MPa, Unannealed	180 °C	ISO 75-2/A
Melting Temperature ⁴	225 °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
Comparative Tracking Index ⁵	550 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
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	



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

³ 30s

⁴ 20°C/min

⁵ 50 drops



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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

