

Celanyl® B3 H NC 1102/3

Polyamide 6

Celanese Corporation

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Polyamide 6 compound, easy flow, fast cycles, heat stabilized.

General purpose grade, suitable for any technical use that require a medium term heat stabilization.

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
Features	• Good Heat Resistance • High Flow
Forms	• Granules
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.13 g/cm ³	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	1.4 to 1.8 %	
Flow	1.4 to 1.8 %	
Water Absorption		ISO 62
Saturation, 23°C	8.8 %	
Equilibrium, 23°C, 50% RH	2.6 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	3000 MPa	ISO 527-1
Tensile Stress		ISO 527-2/50
Yield	80.0 MPa	
Break	45.0 MPa	
Tensile Strain		ISO 527-2/50
Yield	> 5.0 %	
Break	> 35 %	
Flexural Modulus (23°C)	2750 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	> 60 kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	3.8 kJ/m ²	ISO 180/1A

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	180 °C	ISO 75-2/B
1.8 MPa, Unannealed	65.0 °C	ISO 75-2/A
Melting Temperature ³	225 °C	ISO 11357-3

Electrical	Nominal Value Unit	Test Method
Volume Resistivity (23°C)	1.0E+13 ohms·m	IEC 62631-3-1
Comparative Tracking Index (CTI)	PLC 0	UL 746A

Flammability	Nominal Value Unit	Test Method
Flame Rating (1.6 mm)	HB	UL 94

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 20°C/min



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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

