



CELANYL® A3 GF30 NC 1102/Z

CELANYL®

General purpose compound for injection molding, suitable for Automotive, E&E and Industrial & Consumer applications.

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Resin Identification	PA66-GF30)	ISO 1043
Part Marking Code	>PA66-GF30<		ISO 11469
Continuous Service Temperature	115	5 °C	IEC 60216-1
Rheological properties			
Moulding shrinkage range, parallel	0.3 - 0.7	7 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 0.9	9 %	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	9500/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	180/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5/-	%	ISO 527-1/-2
Flexural modulus	8500/-	MPa	ISO 178
Flexural strength	260/-	MPa	ISO 178
Charpy impact strength, 23°C	55/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	12/-	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	11/-	kJ/m²	ISO 180/1A
Poisson's ratio	0.34/- ^[C]		
[C]: Calculated			
Thermal properties	dry/cond.		
Temperature of deflection under load, 1.8 MPa	250/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	260/*	°C	ISO 75-1/-2
Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.69/*	mm	IEC 60695-11-10
UL recognition	yes/*		UL 94
Glow Wire Flammability Index, 0.75mm	650/-	°C	IEC 60695-2-12
Glow Wire Flammability Index, 3.0mm	650/-	°C	IEC 60695-2-12
FMVSS Class	В		ISO 3795 (FMVSS 302)
Hot Wire Ignition, 0.75mm	PLC 4/*	S	UL 746A
Hot Wire Ignition, 1.5mm	PLC 1/*	S	UL 746A
Hot Wire Ignition, 3mm	PLC 0/*	S	UL 746A
Electrical properties	dry/cond.		
· · ·		Oh	IEC 00001 0 1
Volume resistivity	1E12/-	Ohm.m	IEC 62631-3-1
Arc Resistance Performance Level Category	PLC 6/*	class	UL 746B
High Amperage Arc Ignition Category, 1.5 mm	PLC 0/*	class	UL 746A

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Revised: 2025-02-14 Source: Celanese Materials Database





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Physical/Other properties

dry/cond.

Injection

Drying Recommended	yes	
Drying Temperature	80	°C
Drying Time, Dehumidified Dryer	2 - 4	h
Processing Moisture Content	≤0.15	%
Melt Temperature Optimum	295	°C
Min. melt temperature	285	°C
Max. melt temperature	305	°C
Screw tangential speed	≤0.2	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	70	°C
Max. mould temperature	120	°C

Characteristics

Processing Injection Moulding

Delivery form Granules

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NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufac

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