

# CELANYL® A3 GF30 NC 1102/X

CELANYL®

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

#### **Product information**

r roddol information			
Resin Identification	PA66-GF30		ISO 1043
Part Marking Code	>PA66-GF30<		ISO 11469
Continuous Service Temperature	115	°C	IEC 60216-1
		C	
Rheological properties			
Moulding shrinkage range, parallel	0.3 - 0.6	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9		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	2.8/-	%	ISO 527-1/-2
Flexural modulus	8500/-	MPa	ISO 178
Flexural strength	260/-	MPa	ISO 178
Charpy impact strength, 23°C	55/-	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	12/-	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, 23°C	11/-	kJ/m <sup>2</sup>	ISO 180/1A
Poisson's ratio	0.34/- <sup>[C]</sup>	NO/III	
	0.047		
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	265/*	°C	ISO 11357-1/-3
•		°C	
Temperature of deflection under load, 1.8 MPa	250/*		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
FMVSS Class	B	0	ISO 3795 (FMVSS 302)
Hot Wire Ignition, 0.75mm	PLC 4/*	S	UL 746A
Hot Wire Ignition, 1.5mm	PLC 1/*		UL 746A
-	PLC 0/*	S	
Hot Wire Ignition, 3mm	FLG U/	S	UL 746A
Electrical properties	dry/cond.		
Volume resistivity	>1E13/-	Ohm.m	IEC 62631-3-1
Electric strength	16/-	kV/mm	IEC 60243-1
Comparative tracking index	600/-		IEC 60112
Arc Resistance Performance Level Category	PLC 6/*	class	UL 746B
High Amperage Arc Ignition Category, 1.5 mm	PLC 0/*	class	UL 746A
right Amperage Arc ignition Category, 1.3 IIIII		01035	0L /40A

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Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.5/*	%	Sim. to ISO 62
Water absorption, 2mm	5.6/*	%	Sim. to ISO 62
Density	1360/-	kg/m <sup>3</sup>	ISO 1183
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		
Mold Temperature Optimum	100	°C	
Min. mould temperature	70	°C	
Max. mould temperature	120	°C	
Characteristics			
Processing	Injection Moulding		
Delivery form	Granules		

Heat stabilised or stable to heat, High Flow

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Special characteristics

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#### Revised: 2025-04-18 Source: Celanese Materials Database

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