



## CELANYL® A3 GF50 NC 1102/J

**CELANYL®** 

Car industry, Household appliances, Electrical devices.

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Resin Identification	PA66-GF50	ISO 1043
Part Marking Code	>PA66-GF50<	ISO 11469

#### Rheological properties

Moulding shrinkage range, parallel	0.3 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.5 - 0.6 %	ISO 294-4, 2577

dry/cond.

#### Typical mechanical properties

Tensile modulus	16000/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	230/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.2/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	95/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	15/-	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	16/-	kJ/m²	ISO 180/1A
Izod impact strength, 23°C	80/-	kJ/m²	ISO 180/1U
Poisson's ratio	0.33/- <sup>[C]</sup>		

#### [C]: Calculated

### Thermal properties dry/cond.

Melting temperature, 10°C/min	265/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	257/*	°C	ISO 75-1/-2
Temperature of deflection under load 0.45 MPa	262 / *	°C	ISO 75-1/-2

#### Flammability

Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	1 *\8.0	mm	IEC 60695-11-10
UL recognition	yes/*		UL 94

dry/cond.

dry/cond.

#### Physical/Other properties

Humidity absorption, 2mm	0.9/*	%	Sim. to ISO 62
Water absorption, 2mm	4/*	%	Sim. to ISO 62

#### Injection

yes	
80	°C
2 - 4	h
≤0.15	%
295	°C
285	°C
305	°C
≤0.2	m/s
100	°C
70	°C
	80 2 - 4 ≤0.15 295 285 305 ≤0.2 100

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





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Max. mould temperature 120 °C

#### Characteristics

Processing Injection Moulding

Delivery form Granules

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