

# CELANYL® A3 J10 GF13 NC 1102/E

## CELANYL®

Designed for automotive, suitable for any application requiring average stiffness and impact resistance, even at low temperature.

### Product information

Resin Identification	PA66-I-GF13	ISO 1043
Part Marking Code	>PA66-I-GF13<	ISO 11469

### Rheological properties

Moulding shrinkage range, parallel	0.4 - 0.7 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 1 %	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	4700/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	95/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	5.5/-	%	ISO 527-1/-2
Flexural modulus	3900/-	MPa	ISO 178
Flexural strength	150/-	MPa	ISO 178
Charpy impact strength, 23°C	57/-	kJ/m <sup>2</sup>	ISO 179/1eU
Izod notched impact strength, 23°C	10/-	kJ/m <sup>2</sup>	ISO 180/1A
Poisson's ratio	0.36/- <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	225/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	247/*	°C	ISO 75-1/-2

### Flammability

	dry/cond.		
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10
UL recognition	yes/*		UL 94

### Electrical properties

	dry/cond.		
Comparative tracking index	600/-		IEC 60112

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.7/*	%	Sim. to ISO 62
Water absorption, 2mm	6.2/*	%	Sim. to ISO 62
Density	1200/-	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

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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
Special characteristics	High impact or impact modified, High Flow