Celanese
The chemistry inside innovation™

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/m²	ISO 179/1eU
Izod notched impact strength, 23°C	10 / -	kJ/m²	ISO 180/1A
Poisson's ratio	0.36 / -[C]		

[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/m³	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

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

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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

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