

CELANYL® A3 H J10 GF13 NC 1102/E

CELANYL®

Car industry, Household appliances, Electrical devices.

Product information

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

Rheological properties

	dry/cond.		
Moulding shrinkage, parallel	0.6 / -	%	ISO 294-4, 2577
Moulding shrinkage range, parallel	0.4 - 0.7	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.8 / -	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 1	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	4900 / 3720	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	95 / 72	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	5 / 8.8	%	ISO 527-1/-2
Flexural modulus	4100 / -	MPa	ISO 178
Flexural strength	96 / -	MPa	ISO 178
Charpy impact strength, 23°C	60 / 12	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	7.5 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	9.5 / -	kJ/m ²	ISO 180/1A
Izod impact strength, 23°C	>50 / -	kJ/m ²	ISO 180/1U
Poisson's ratio	0.35 / 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	238 / *	°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
Glow Wire Flammability Index, 0.75mm	650 / -	°C	IEC 60695-2-12
Glow Wire Flammability Index, 3.0mm	650 / -	°C	IEC 60695-2-12

Electrical properties

	dry/cond.		
Comparative tracking index	500 / -		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1 / *	%	Sim. to ISO 62
Water absorption, 2mm	6 / *	%	Sim. to ISO 62
Density	1200 / -	kg/m ³	ISO 1183

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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	80 °C
Min. mould temperature	50 °C
Max. mould temperature	100 °C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High impact or impact modified, Heat stabilised or stable to heat