

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