

CELANYL® A3 GF30 TM2 GY 7022/A

CELANYL®

Car industry, Household appliances, Electrical devices

Product information

Resin Identification	PA66-GF30	ISO 1043
Part Marking Code	>PA66-GF30<	ISO 11469
Continuous Service Temperature	105 °C	IEC 60216-1

Rheological properties

Moulding shrinkage range, parallel	0.2 - 0.5 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.5 - 0.9 %	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	9500/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	170/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.8/-	%	ISO 527-1/-2
Flexural strength	220/-	MPa	ISO 178
Charpy impact strength, 23°C	45/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	7/-	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34/- ^[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	250/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	260/*	°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

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.6/*	%	Sim. to ISO 62
Water absorption, 2mm	5.7/*	%	Sim. to ISO 62
Density	1370/-	kg/m ³	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
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

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Max. mould temperature 120 °C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Additives	Contains Molybdenum Disulfide
Special characteristics	Low wear / Low friction