

# CELANYL® A3 GF30 BK 9005/TE

## CELANYL®

PA66, 30% glass fibre reinforced  
Car industry, Household appliances, Electrical devices.

### Product information

Resin Identification	PA66-GF30	ISO 1043
Part Marking Code	>PA66-GF30<	ISO 11469
Continuous Service Temperature	110 °C	IEC 60216-1

### Rheological properties

Moulding shrinkage range, parallel	0.4 - 0.6 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 0.9 %	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	9800/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	180/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.8/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	55/-	kJ/m <sup>2</sup>	ISO 179/1eU
Izod notched impact strength, 23°C	9.5/-	kJ/m <sup>2</sup>	ISO 180/1A
Poisson's ratio	0.34/- <sup>[C]</sup>		
[C]: Calculated			

### Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	245/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	255/*	°C	ISO 75-1/-2

### Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10
Thickness tested	1.6/*	mm	IEC 60695-11-10
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.		
Volume resistivity	1E13/-	Ohm.m	IEC 62631-3-1

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.5/*	%	Sim. to ISO 62
Water absorption, 2mm	5.5/*	%	Sim. to ISO 62
Density	1370/-	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
Special characteristics	Specialty appearance, High Flow