

# CELANYL® B3 GF30 NC 1102

## CELANYL®

*General purpose grade, suitable for any technical application, medium term heat ageing resistance. Improved flowability.*

### Product information

Resin Identification	PA6-GF30	ISO 1043
Part Marking Code	>PA6-GF30<	ISO 11469
Continuous Service Temperature	95 °C	IEC 60216-1

### Rheological properties

Viscosity number	145 /*	cm³/g	ISO 307, 1628
Moulding shrinkage range, parallel	0.2 - 0.6	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 1	%	ISO 294-4, 2577

### Typical mechanical properties

Tensile modulus	9400 /-	MPa	ISO 527-1/2
Tensile stress at break, 5mm/min	180 /-	MPa	ISO 527-1/2
Tensile strain at break, 5mm/min	3.5 /-	%	ISO 527-1/2
Charpy notched impact strength, 23°C	13.5 /-	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	16 /-	kJ/m²	ISO 180/1A
Poisson's ratio	0.34 / -[C]		

[C]: Calculated

### Thermal properties

Melting temperature, 10 °C/min	225 /*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	210 /*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	220 /*	°C	ISO 75-1/-2

### Flammability

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

Volume resistivity	1E13 /-	Ohm.m	IEC 62631-3-1
Surface resistivity	* / 1E13	Ohm	IEC 62631-3-2
Comparative tracking index, 100 drops	525		IEC 60112

### Physical/Other properties

Humidity absorption, 2mm	1.8 /*	%	Sim. to ISO 62
Water absorption, 2mm	6.3 /*	%	Sim. to ISO 62
Density	1340 /-	kg/m³	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	260 °C
Min. melt temperature	240 °C
Max. melt temperature	290 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	80 °C
Min. mould temperature	60 °C
Max. mould temperature	120 °C

### Characteristics

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