

# CELANYL® B2 HW GF30 NC 1102/3

## CELANYL®

General purpose grade, suitable for any technical application.

### Product information

Resin Identification	PA6-GF30	ISO 1043
Part Marking Code	>PA6-GF30<	ISO 11469

### Rheological properties

Moulding shrinkage range, parallel	0.3 - 0.6 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9 %	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	9300/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	170/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.5/-	%	ISO 527-1/-2
Charpy impact strength, 23°C	>60/-	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	13.5/-	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, 23°C	14/-	kJ/m <sup>2</sup>	ISO 180/1A
Poisson's ratio	0.34/- <sup>[C]</sup>		
[C]: Calculated			

### Thermal properties

	dry/cond.		
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

	dry/cond.		
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10

### Electrical properties

	dry/cond.		
Comparative tracking index	600/-		IEC 60112

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.9/*	%	Sim. to ISO 62
Water absorption, 2mm	6.6/*	%	Sim. to ISO 62
Density	1360/-	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	260 °C
Min. melt temperature	240 °C
Max. melt temperature	290 °C
Screw tangential speed	≤0.2 m/s

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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