

# CELANYL® B3 H J5 NC 1102/3

## CELANYL®

General purpose grade, high flexibility and impact resistance.

### Product information

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

### Rheological properties

Moulding shrinkage range, parallel	1.4 - 1.8 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.4 - 1.8 %	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	2500/-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65/-	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	4/-	%	ISO 527-1/-2
Tensile stress at break, 50mm/min	40/-	MPa	ISO 527-1/-2
Flexural modulus	2000/-	MPa	ISO 178
Charpy impact strength, 23°C	>60/-	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	13/-	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, 23°C	10/-	kJ/m <sup>2</sup>	ISO 180/1A
Poisson's ratio	0.38/- <sup>[C]</sup>		

[C]: Calculated

### Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	225/*	°C	ISO 11357-1/-3

### Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.6/*	%	Sim. to ISO 62
Water absorption, 2mm	8.9/*	%	Sim. to ISO 62
Density	1100/-	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	270 °C
Screw tangential speed	≤0.25 m/s
Mold Temperature Optimum	70 °C
Min. mould temperature	50 °C
Max. mould temperature	90 °C

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### Characteristics

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