Celanese
The chemistry inside innovation™

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/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	13 / -	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	10 / -	kJ/m²	ISO 180/1A
Poisson's ratio	0.38 / -[C]		

[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/m³	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