

CELANYL® B3 J20 NC 1102

CELANYL®

Designed for any technical application requiring good flexibility and high toughness even at low temperature.

Product information

Resin Identification	PA6-I	ISO 1043
Part Marking Code	>PA6-I<	ISO 11469
Continuous Service Temperature	90 °C	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	140/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	1.5 - 2	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.5 - 2	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	1600/-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	40/-	MPa	ISO 527-1/-2
Charpy impact strength, 23°C	N/-	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	N/-	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	25/-	kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 961/30	80/-	MPa	ISO 2039-1
Poisson's ratio	0.42/- ^[C]		
[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	65/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	160/*	°C	ISO 75-1/-2

Flammability

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

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.9/*	%	Sim. to ISO 62
Water absorption, 2mm	6.7/*	%	Sim. to ISO 62
Density	1050/-	kg/m ³	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

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Min. mould temperature	50 °C
Max. mould temperature	90 °C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High impact or impact modified