Celanese
The chemistry inside innovation™

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