Celanese
The chemistry inside innovation™

CELANYL® B3 N NC 1102

CELANYL®

General purpose grade, suitable for technical uses.

Product information

Resin Identification	PA6		ISO 1043
Part Marking Code	>PA6<		ISO 11469
Continuous Service Temperature	120	°C	IEC 60216-1

Rheological properties

	dry/cond.		
Viscosity number	140 / *	cm^3/g	ISO 307, 1628
Moulding shrinkage range, parallel	1.6 - 2	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.6 - 2	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	3000 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	78 / -	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	N / -	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23°C	5 / -	kJ/m^2	ISO 179/1eA
Poisson's ratio	0.37 / -[C]		

[C]: Calculated

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	65 / *	°C	ISO 75-1/-2

Electrical properties

	dry/cond.		
Comparative tracking index	550 / -		IEC 60112

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.5 / *	%	Sim. to ISO 62
Water absorption, 2mm	9 / *	%	Sim. to ISO 62
Density	1140 / -	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	235	°C
Max. melt temperature	270	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	70	°C
Min. mould temperature	50	°C
Max. mould temperature	100	°C

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Characteristics

Processing	Injection Moulding
Delivery form	Granules
Additives	Nucleated
Special characteristics	High Flow