

CELANYL® B3 N BK 9005/U

CELANYL®

General purpose grade suitable for any technical application requiring easy processability and fast cycles.

Product information

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

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	3100/1300	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	78/39	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	9/20	%	ISO 527-1/-2
Charpy impact strength, 23°C	45/N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	40/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	4/20	kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 961/30	155/-	MPa	ISO 2039-1
Poisson's ratio	0.37/0.44 ^[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	70/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	175/*	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	3.2/*	mm	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.4/*	%	Sim. to ISO 62
Water absorption, 2mm	8.5/*	%	Sim. to ISO 62
Density	1130/-	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

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Mold Temperature Optimum	70 °C
Min. mould temperature	50 °C
Max. mould temperature	100 °C

Characteristics

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