

CELANYL® B2 W NC 1102/1

CELANYL®

Product information

Resin Identification	PA6	ISO 1043
Part Marking Code	>PA6<	ISO 11469

Typical mechanical properties

Tensile modulus	3150 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	85 MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	10 %	ISO 527-1/-2
Flexural modulus	2800 MPa	ISO 178
Flexural strength	100 MPa	ISO 178
Charpy notched impact strength, 23°C	2 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.37 ^[C]	
Shore D hardness, 15s	80	ISO 48-4 / ISO 868

[C]: Calculated

Thermal properties

Temperature of deflection under load, 1.8 MPa	66 °C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	177 °C	ISO 75-1/-2

Physical/Other properties

Density	1130 kg/m ³	ISO 1183
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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

Characteristics

Processing	Injection Moulding
Special characteristics	Heat stabilised or stable to heat, High Flow