(+) 18816996168
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Celanese
The chemistry inside innovation™

CELANYL® B2 W J20 NC 1102/1

CELANYL®

Product information

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

Typical mechanical properties

	dry/cond.		
Tensile modulus	2050 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	52 / -	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	50 / -	%	ISO 527-1/-2
Flexural modulus	1800 / -	MPa	ISO 178
Flexural strength	63 / -	MPa	ISO 178
Charpy notched impact strength, 23 °C	50 / -	kJ/m²	ISO 179/1eA
Poisson's ratio	0.4 / -[C]		
Shore D hardness, 15s	74 / -		ISO 48-4 / ISO 868

[C]: Calculated

Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	54 / *	°C	ISO 75-1/-2

Flammability

	dry/cond.		
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.		
Density	1070 / -	kg/m³	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

Characteristics

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