

CELANYL® B3 D10 BK 9005

CELANYL®

Designed for Automotive Industry, suitable for any other technical application requiring good flexibility and toughness.

Product information

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

Rheological properties

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	2400 /-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65 /-	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10 /-	%	ISO 527-1/-2
Tensile strain at break, 50mm/min	20 /-	%	ISO 527-1/-2
Flexural strength	90 /-	MPa	ISO 178
Charpy impact strength, 23°C	>80 /-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	9 /-	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.38 /-	[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	60 /*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	160 /*	°C	ISO 75-1/-2

Flammability

	dry/cond.		
Thickness tested	1.6 /*	mm	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.1 /*	%	Sim. to ISO 62
Water absorption, 2mm	7.5 /*	%	Sim. to ISO 62
Density	1090 /-	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
Min. mould temperature	50 °C
Max. mould temperature	90 °C

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Characteristics

Processing	Injection Moulding
Delivery form	Granules
Additives	Nucleated
Special characteristics	High impact or impact modified, Heat stabilised or stable to heat

Automotive

OEM	ADDITIONAL INFORMATION
Renault	UB15, No Spec, Special Part Approval, See Your CE Account Manager.