

# 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 <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	9/-	kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.38/- <sup>[C]</sup>		

[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 <sup>3</sup>	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.