

# CELANYL® A3 D10 BK 9005/G

## CELANYL®

Heat resistant grade, suitable for automotive applications and other technical uses requiring medium impact resistance and good flexibility.

### Product information

Resin Identification	(PA66+PA6)-I	ISO 1043
Part Marking Code	>(PA66+PA6)-I<	ISO 11469
Continuous Service Temperature	130 °C	IEC 60216-1

### Rheological properties

	dry/cond.		
Viscosity number	135 / *	cm <sup>3</sup> /g	ISO 307, 1628
Moulding shrinkage range, parallel	1.3 - 1.9	%	ISO 294-4, 2577
Moulding shrinkage range, normal	1.3 - 1.9	%	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	2500 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65 / -	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	35 / -	%	ISO 527-1/-2
Charpy impact strength, 23 °C	N / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30 °C	N / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23 °C	8 / -	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	260 / *	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	85 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	185 / *	°C	ISO 75-1/-2

### Flammability

FMVSS Class	B	ISO 3795 (FMVSS 302)
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### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.8 / *	%	Sim. to ISO 62
Water absorption, 2mm	7.5 / *	%	Sim. to ISO 62
Density	1100 / -	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	290 °C
Min. melt temperature	280 °C
Max. melt temperature	300 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	80 °C

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Min. mould temperature 50 °C  
Max. mould temperature 100 °C

### Characteristics

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