



CELANYL® A3 D10 BK 9005/G

CELANYL®

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

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Resin Identification Part Marking Code Continuous Service Temperature	(PA66+PA6)-I >(PA66+PA6)-I< 130		ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number Moulding shrinkage range, parallel Moulding shrinkage range, normal	135/* 1.3 - 1.9 1.3 - 1.9	cm³/g % %	ISO 307, 1628 ISO 294-4, 2577 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/m²	ISO 179/1eU
Charpy impact strength, -30°C	N/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	8/-	kJ/m²	ISO 179/1eA
Poisson's ratio	0.38/- ^[C]		
[C]: Calculated			

Thermal properties

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

dry/cond.

dry/cond.

Flammability

FMVSS Class	В	ISO 3795 (FMVSS 302)
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Physical/Other properties

Humidity absorption, 2mm	1.8/*	%	Sim. to ISO 62
Water absorption, 2mm	7.5/*	%	Sim. to ISO 62
Density	1100/-	ka/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	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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Revised: 2024-08-16 Source: Celanese Materials Database





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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

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