

# CELANYL® A2 J05 M30 BK 9005/R/UV

## CELANYL®

Car industry, Household appliances, Electrical devices.

### Product information

Resin Identification	PA66-I-MD30	ISO 1043
Part Marking Code	>PA66-I-MD30<	ISO 11469
Continuous Service Temperature	100 °C	IEC 60216-1

### Rheological properties

	dry/cond.		
Moulding shrinkage, parallel	1.0/-	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.1/-	%	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	6200/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	75/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.4/-	%	ISO 527-1/-2
Flexural modulus	5800/-	MPa	ISO 178
Flexural strength	120/-	MPa	ISO 178
Charpy impact strength, 23°C	33/-	kJ/m <sup>2</sup>	ISO 179/1eU
Izod notched impact strength, 23°C	3.2/-	kJ/m <sup>2</sup>	ISO 180/1A
Poisson's ratio	0.35/- <sup>[C]</sup>		

[C]: Calculated

### Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	95/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	225/*	°C	ISO 75-1/-2

### Flammability

	dry/cond.		
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.8/*	%	Sim. to ISO 62
Water absorption, 2mm	6.2/*	%	Sim. to ISO 62
Density	1340/-	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	295 °C
Min. melt temperature	285 °C
Max. melt temperature	305 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C

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Max. mould temperature 120 °C

### Characteristics

Processing	Injection Moulding
Additives	Mineral Filler
Special characteristics	High impact or impact modified, U.V. stabilised or stable to weather, Heat stabilised or stable to heat, High Flow, Low Warpage