

# CELANYL® A2 HH J14 BK 9005/2

## CELANYL®

Medium toughened grade, good surface appearance and good processability. Suitable for many technical applications.

### Product information

Resin Identification	PA66-I	ISO 1043
Part Marking Code	>PA66-I<	ISO 11469
Continuous Service Temperature	105 °C	IEC 60216-1

### Rheological properties

Moulding shrinkage range, parallel	1.1 - 1.7 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.1 - 1.7 %	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	2250/-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65/-	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	8/-	%	ISO 527-1/-2
Tensile strain at break, 50mm/min	40/-	%	ISO 527-1/-2
Flexural modulus	2100/-	MPa	ISO 178
Flexural strength	80/-	MPa	ISO 178
Charpy impact strength, 23°C	N/-	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	19/-	kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.39/- <sup>[C]</sup>		
[C]: Calculated			

### Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	60/*	°C	ISO 75-1/-2

### Flammability

	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	HB/*	class	IEC 60695-11-10
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	3/*	mm	IEC 60695-11-10

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.1/*	%	Sim. to ISO 62
Water absorption, 2mm	7.1/*	%	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	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
Special characteristics	High impact or impact modified, Heat stabilised or stable to heat