

# CELANYL® A3 HH J6 BK 9005/3

## CELANYL®

Designed for Automotive industry, suitable for any technical applications requiring improved impact and long term heat ageing resistance.

### Product information

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

### Rheological properties

Moulding shrinkage range, parallel	1.4 - 1.8 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.4 - 1.8 %	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	2850 /-	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	74 /-	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	5 /-	%	ISO 527-1/-2
Tensile stress at break, 50mm/min	60 /-	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	20 /-	%	ISO 527-1/-2
Flexural modulus	2600 /-	MPa	ISO 178
Charpy impact strength, 23°C	>80 /-	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	10.5 /-	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, 23°C	7.5 /-	kJ/m <sup>2</sup>	ISO 180/1A
Poisson's ratio	0.37 /- <sup>[C]</sup>		
[C]: Calculated			

### Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	265 /*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	70 /*	°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	2.2 /*	%	Sim. to ISO 62
Water absorption, 2mm	7.9 /*	%	Sim. to ISO 62
Density	1110 /-	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

# CELANYL® A3 HH J6 BK 9005/3

## CELANYL®

Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	80 °C
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