

# CELANYL® A3 GB05 NC 1102/EB

## CELANYL®

Injection molding grade, easy flowing, suitable for any technical application.

### Product information

Resin Identification	PA66-GB08	ISO 1043
Part Marking Code	>PA66-GB08<	ISO 11469

### 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	3500 / -	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	75 / -	MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	4 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	20 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	2 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, 23°C	2.2 / -	kJ/m <sup>2</sup>	ISO 180/1A
Izod impact strength, 23°C	15 / -	kJ/m <sup>2</sup>	ISO 180/1U
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	80 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	210 / *	°C	ISO 75-1/-2

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	2.1 / *	%	Sim. to ISO 62
Water absorption, 2mm	7.4 / *	%	Sim. to ISO 62
Density	1170 / -	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
Max. mould temperature	120 °C

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### Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High Flow