

# CELANYL® A3 GF15 NC 1102/Z

## CELANYL®

General purpose grade

### Product information

Resin Identification	PA66-GF15	ISO 1043
Part Marking Code	>PA66-GF15<	ISO 11469
Continuous Service Temperature	105 °C	IEC 60216-1

### Rheological properties

	dry/cond.		
Moulding shrinkage, parallel	0.6 / -	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.9 / -	%	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	6200 / 4500 <sup>[C]</sup>	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	120 / 80 <sup>[C]</sup>	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5 / 6	%	ISO 527-1/-2
Flexural modulus	5700 / -	MPa	ISO 178
Flexural strength	170 / -	MPa	ISO 178
Charpy impact strength, 23°C	30 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	5.5 / 6.5 <sup>[DS]</sup>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, 23°C	5 / -	kJ/m <sup>2</sup>	ISO 180/1A
Poisson's ratio	0.35 / 0.36 <sup>[C]</sup>		

[C]: Calculated

[DS]: Derived from similar grade

### Thermal properties

	dry/cond.		
Temperature of deflection under load, 1.8 MPa	245 / *	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	250 / *	°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	6.7 / *	%	Sim. to ISO 62
Density	1230 / -	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	

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Mold Temperature Optimum	100 °C
Min. mould temperature	70 °C
Max. mould temperature	120 °C

### Characteristics

Processing	Injection Moulding
Delivery form	Granules