

# CELANYL® A4 HH GF50 NC 1102

## CELANYL®

### Product information

Resin Identification	PA66-GF50	ISO 1043
Part Marking Code	>PA66-GF50<	ISO 11469
Continuous Service Temperature	130 °C	IEC 60216-1

### Rheological properties

Moulding shrinkage range, parallel	0.1 - 0.3 %	ISO 294-4, 2577
Moulding shrinkage range, normal	0.3 - 0.6 %	ISO 294-4, 2577

### Typical mechanical properties

	dry/cond.		
Tensile modulus	16000/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	210/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2/-	%	ISO 527-1/-2
Flexural modulus	15000/-	MPa	ISO 178
Flexural strength	340/-	MPa	ISO 178
Izod notched impact strength, 23°C	15/-	kJ/m <sup>2</sup>	ISO 180/1A
Izod impact strength, 23°C	75/-	kJ/m <sup>2</sup>	ISO 180/1U
Poisson's ratio	0.33/- <sup>[C]</sup>		

[C]: Calculated

### Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	260/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	255/*	°C	ISO 75-1/-2

### Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.2/*	%	Sim. to ISO 62
Water absorption, 2mm	4.3/*	%	Sim. to ISO 62
Density	1560/-	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, Extrusion
Delivery form	Granules
Special characteristics	Heat stabilised or stable to heat