

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 ^[C] MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	120 / 80 ^[C] 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 ²	ISO 179/1eU
Charpy notched impact strength, 23 °C	5.5 / 6.5 ^[DS] kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23 °C	5 / - kJ/m ²	ISO 180/1A
Poisson's ratio	0.35 / 0.36 ^[C]	

[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 ³	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

CELANYL® A3 GF15 NC 1102/Z

CELANYL®

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

Characteristics

Processing	Injection Moulding
Delivery form	Granules