



CELANYL® A2 WR GF30 NC 1102/2B **CELANYL®**

Designed for technical application requiring long term	m heat resistance pa	cked with prim	e quality mechanical performances.
Product information			
Resin Identification Part Marking Code	PA66-GF30 >PA66-GF30<		ISO 1043 ISO 11469
Continuous Service Temperature	115	°C	IEC 60216-1
Rheological properties			
Moulding shrinkage range, parallel Moulding shrinkage range, normal	0.3 - 0.6 0.6 - 0.9		ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	9700/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	190/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.4/-	%	ISO 527-1/-2
Flexural modulus	8800/-	MPa	ISO 178
Charpy impact strength, 23°C	85/-	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	11.5/-	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	12/-	kJ/m²	ISO 180/1A
Poisson's ratio	0.34/- ^[C]		
[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	250/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	260/*	°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	1.7/*	%	Sim. to ISO 62
Water absorption, 2mm	5.9/*	%	Sim. to ISO 62
Density	1360/-	kg/m³	ISO 1183
Injection			
Drying Recommended	VAC		
Drying Temperature	yes 80 °C		
Drying Time, Dehumidified Dryer	2 - 4 h		
Processing Moisture Content	≤0.15 %		
Melt Temperature Optimum	295 °C		
Min. melt temperature	285		
Max. melt temperature	305		
Screw tangential speed	≤0.2	m/s	
Mold Temperature Optimum	100	°C	

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Revised: 2024-08-16 Source: Celanese Materials Database





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Min. mould temperature 70 °C Max. mould temperature 120 °C

Characteristics

Processing Injection Moulding

Delivery form Granules

Special characteristics Heat stabilised or stable to heat

Chemical Media Resistance

Salt solutions

✓ Sodium Hypochlorite solution (10% by mass), 23°C

Symbols used:

possibly resistant

Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

not recommended - see explanation
Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

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