

CELANYL[®] A2 WR GF30 NC 1102/2A CELANYL®

Designed for technical application requiring long term heat resistance packed with prime quality mechanical performances.

Product information	PA66-GF30		100 1042
Resin Identification Part Marking Code	>PA66-GF30		ISO 1043 ISO 11469
Continuous Service Temperature	115	°C	IEC 60216-1
Rheological properties			
Moulding shrinkage range, parallel	0.3 - 0.6		ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9	%	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/-	%	ISO 527-1/-2
Flexural modulus	8800/-	MPa	ISO 178
Charpy impact strength, 23°C Charpy notched impact strength, 23°C	80/- 11/-	kJ/m² kJ/m²	ISO 179/1eU ISO 179/1eA
Izod notched impact strength, 23°C	12/-	kJ/m ²	ISO 179/16A
Poisson's ratio	0.34 / - ^[C]	100/111	
[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/*	°Č	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	yes		
Drying Temperature		°C	
Drying Time, Dehumidified Dryer	2 - 4		
Processing Moisture Content	≤0.15 % 295 °C		
Melt Temperature Optimum	295 285		
Min. melt temperature Max. melt temperature	285 305		
Screw tangential speed		m/s	
Mold Temperature Optimum	100		
	100	-	

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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, High Flow

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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