



CELANYL[®] A3 WR FC GF30 NC 1102 CELANYL®

Grade designed for food contact suitability.

Product information Resin Identification Part Marking Code	PA66-GF30 >PA66-GF30<		ISO 1043 ISO 11469
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 Tensile stress at break, 5mm/min Tensile strain at break, 5mm/min Flexural strength Charpy impact strength, 23°C Charpy notched impact strength, 23°C Izod notched impact strength, -30°C Izod notched impact strength, -30°C Poisson's ratio [C]: Calculated	9800/- 190/- 3.5/- 260/- >80/- 12.5/- 10/- 13/- 8.0/- 0.34/- ^[C]	MPa MPa kJ/m ² kJ/m ² kJ/m ² kJ/m ²	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eU ISO 179/1eA ISO 179/1eA ISO 180/1A ISO 180/1A
Thermal properties	dry/cond.		
Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa Temperature of deflection under load, 0.45 MPa	265/* 250/* 260/*	°C °C °C	ISO 11357-1/-3 ISO 75-1/-2 ISO 75-1/-2
Flammability	dry/cond.		
Burning Behav. at thickness h Thickness tested	HB/* 0.8/*	class mm	IEC 60695-11-10 IEC 60695-11-10
Electrical properties	dry/cond.		
Volume resistivity Surface resistivity	>1E13/- */1E12	Ohm.m Ohm	IEC 62631-3-1 IEC 62631-3-2
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm Water absorption, 2mm Density	1.7/* 5.9/* 1360/-	% % kg/m³	Sim. to ISO 62 Sim. to ISO 62 ISO 1183





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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

Characteristics

Processing	Injection Moulding
Delivery form	Granules

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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