

®

GELNORM



GELNORM® - TC
Gel-Time instrument

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PRINCIPLE

The automatic GELNORM®-Gel Timer TC for the measurement of gelation time under standardised conditions is easy to use and the results show exceptionally good reproduceability with all reaction resins such as:

- unsat. Polyester resins
- Epoxid resins
- Polyurethane resins
- Acrylic resins
- Silicone resins etc.

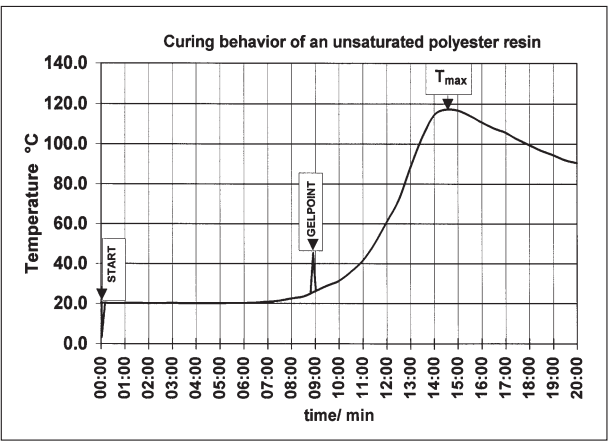


Fig. 2

The instrument incorporates a switch-off mechanism that responds to pressure: the gelation time limit is reached when the measuring stamper meets a defined reaction force in the reaction resin. As a result of this automatic switch-off system, the size of resin sample employed is not limited. The **disposable stamper** of stainless steel wire carries out a defined reciprocating movement as soon as the instrument is set in operation and, when the change in viscosity is reached, a built in timer is stopped and the gelation time can be read off.

TEST PROCEDURE

Place 100g reaction resin (deviations of 1% are permissible according to DIN 16'945) in a beaker. Add hardening agent and, if applicable, accelerator of the required quantities as specified by the supplier, measuring to an accuracy of 0,01g. If necessary, first ensure that resin and hardening agent are saturated at the correct temperature. After adding of hardening agent, start timer and thoroughly stirr test mixture (approx. 1 minute). When the measuring stamper is inserted, the stop mechanism is switched off. If the exotherme temperature is to be measured in addition to Gelation time, a graphical recorder and a Thermbox are connected to the rear of the instrument. A thermo element Ni-Cr-Ni is inserted into the specimen. The Stop-Start sequence is specially marked by the graphical recorder (see Fig.2).

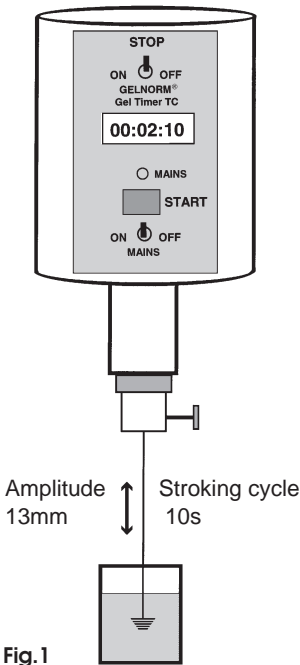


Fig. 1

GELNORM®-Gel Timer TC	Ref. 21.10	Stroke* 6/min, 100 stampers, 230V/50Hz or 110V/60Hz Time measurement: 23h59min59sec (* change possible)
Stand for Gel Timer TC	Ref. 21.15	
Stampers for TC	Ref. 20.35	(500 pcs.)
Specimen container	Ref. 21.20	(individual - beaker)
GELNORM-Therm-Box	Ref. 160.70	(for Ni-Cr-Ni)
Thermo element Ni-Cr-Ni	Ref. 20.32	(5m)

