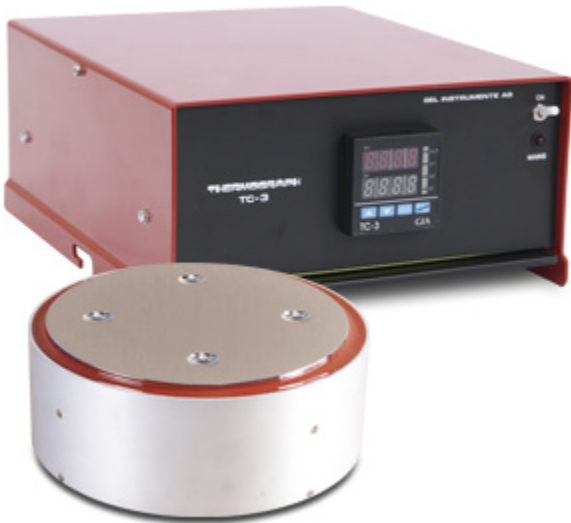


## B-TIMING PLATE



### B-TIMING PLATE ACCORDING TO DIN 16 916

B-Time determination on the B-Timing Plate provides information on the curing behavior of resins capable of heat-hardening, namely the reaction time at a given temperature after which resins (solid, liquid, or solvent-containing resins of a known concentration) change to the B-state. This B-Timing Plate according to DIN 16 916 is mainly used for **Phenolic resins**.

Our standard B-Timing Plate has four depressions in the heating plate, accepting one sample each. Plates without depressions are also available. The temperature is precisely controlled with our temperature controller TC-3 (ref. 70.05).

### MEASURING PROCEDURE

The B-Timing Plate has to be protected against draughts with a cabinet open to one side.

Place **resin sample of 500 mg** in to a depression on the plate and start stop watch. Use a tapered glass rod ( $\varnothing$  3 mm, reduced to  $\varnothing$  2 mm at one end) to impart short circular stirring motions to resin, directed from edge to center of the depression. In case of extended B-times, stir for one minute, followed by 10 seconds of stirring, spaced at one-minute intervals.

Stir constantly when resin gets a tougher consistency toward the end of the test. Pull out glass rod briefly to check if resin is still stringy. The B-point is reached when no strings result as the rod is pulled up and the resin tears off in a rubber-like fashion. Stop the watch at this stage and read elapsed time. Indicate elapsed time in minutes and seconds. Record testing temperature at which test has been done.

**Important****!!**

The heating plate is hard-chrome plated. Use only brass spatula or brass/copper brush for cleaning.

**TECHNICAL DATA**

B-Timing Plate	Ref. 40.01 with 4 depressions Ref. 40.02 without depressions
Operating current	230 V / 50 Hz or 115 V / 60 Hz, $\pm 10\%$
Heating capacity	160 W
Dimensions	$\varnothing 220 \times 80$ mm
Weight	6,7 kg
Temperature Controller TC-3	Ref. 70.05
Pt100 Sensor	Ref. 70.06