

No. 2295

KRK blister tester

In response to recent information-oriented society, a huge amount of coated paper for rotary offset printing is put into market. This type of paper may be prone to a specific trouble, that is, blistering in the printing and drying process. The blister tester simulates the state in the printing and drying process to examine the double-face printing paper. It is useful for preventing blistering. Test is done by moving the coated paper printed on its double face in the heating furnace provided with fifteen far infrared heaters, changing moving speed and temperature. Sudden expansion of water in the paper causes blistering, which is visually observed.

Heating: with far infrared heaters, 160 mm long, 15 heaters
three-phase 200 VAC, 6 kW

Temperature range: room temperature to 650°C,
digital-display thermometer (manual
control by the slide regulator to near the
set temperature)

Specimen size: 200 mm wide (max.)×210 mm long (effective
length 150 mm)

Conveyor speed: 0.1 to 1 m/sec.

Referential standards: TAPPI T526om-85

Power source: three-phase 200/220 VAC 50/60 Hz 20 A

Outer dimensions: 1500×600×1180 mm

Instrument weight: 265 kg



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No. 2302

Ink drying tester

Drying property of letterpress or lithography ink is evaluated, by measuring the time till the ink dries and it is not transferred to the paper even if it is pressed against the paper. Gravure ink or other inks that are dried by heating or another process cannot be used on this tester. Test principle: a printing specimen and a counter-paper-sheet are overlapped and wound around the drum rotating at a constant speed; upon them, a press gear that applies a constant load is put, and it is moved along with rotation of the drum. From the trace of the press gear on the counter-paper-sheet, the drying time and set-off of the specimen are measured.

Drum: 103 mm in outer diameter, 300 mm long, made of
acrylic resin

Rotation speed: 1/10 rpm, total scanning time 15 hours
1 rpm, total scanning time 1.5 hours

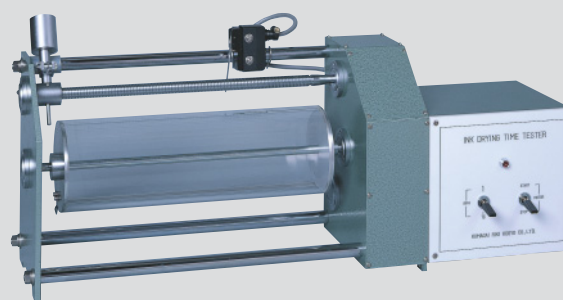
Press gear: geometry specified by JIS, press pressure 750
 ± 20 gf (7.36 ± 0.20 N)

Referential standards: JIS K-5701-2000

Power source: 100/110 VAC 50/60 Hz 2 A

Outer dimensions: 660×210×265 mm

Instrument weight: 16 kg



No. 2302