

Mullen Burst strength tester (Type A, rapid hydraulic clamp)

The burst strength tester is designed to measure the pressure needed to make a paper sheet burst, by applying vertical pressure to the paper. This strength behaves like tensile strength, with a close relationship with machine direction tensile strength and elongation.

This machine is designed to be used for the burst strength measurement of paperboard, liner board, corrugated board, textile and the like. The principle of the machine is that the specimen is applied pressure indirectly, that is, via a rubber diaphragm by the use of glycerin.

The maximum pressure at the moment the specimen bursts is read with a pressure gauge. Pressure application is made when the plunger advances forwards by the force of a motor. The specimen-clamping section are larger than those of a low-pressure type burst strength tester, enabling clamping the specimen firmly. The both clamping sections, upper and lower, are made of SUS-304 stainless steel.

To secure reproducibility of test results, the tester is designed with the excellent possibility of fixing a specimen with a certain level of pressure by the handle, reading a pressure gauge on the hydraulic cylinder of the clamping section.

Specimen clamp: upper clamp 31.5 ± 0.05 mm,
lower clamp 31.5 ± 0.05 mm

Compression speed: 170 ± 15 cc/min.

Decompression speed: 340 cc/min.

Pressure gauge: 1 MPa, 1.5 MPa, 2 MPa, 5 MPa

Two kinds of pressure gauges are selected from the pressures above.

Digital display is available in option.

Referential standards: JIS P-8131-1995, TAPPI T807om-03,
T810om-85, ISO 2759

Power Source: single-phase 100/110 VAC 50/60 Hz 2A

Outer dimensions: 760×500×540 mm

Instrument weight: 91 kg

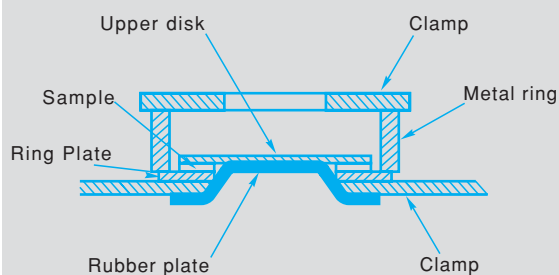


No. 2025

Ply separation strength tester(exclusively used for burst strength tester)

This ply separation strength tester is designed to be used together with a burst strength tester to measure ply separation strength of paperboard. The principle is as follows: the specimen, composed of two pieces of paperboard bonded together and cut off in the shape of a doughnut, as shown in the figure, is bonded in a state of being pinched between the circular plate and the holeless metallic plate to be inserted into the burst strength tester for pressure application. During being pressurized, the rubber diaphragm inflates toward the holeless disc. The gauge reads a maximum pressure at the moment ply separation occurs.

Referential standard: TAPPI UM522



No. 2028