

No.2035

Elmendorf tearing tester

Tear strength is defined as a value of resistance to tearing when a sheet of paper is held with both hands and torn. To simulate this force, the fan-shaped pendulum is swung down onto the paper from a certain level of height to tear it, and the energy loss of the pendulum at that time is given as tear strength. According to the strength of a paper sheet, change the number of paper sheets from one to sixteen, and the value obtained is converted to the value at the time 16 sheets of the same paper are subject to tearing. This value is used as a tear value.

Specimen size: 63mm long, 50 to 75mm wide

Number of specimens: 16 (the number of specimens to be measured is determined such that test results are within 20 to 80% of full the scale)

Test tear length: 43mm

Test slit length: 20mm

Referential standards: JIS P-8116-2000, TAPPI T414om-98, ISO 1974

Outer dimensions: 500 x 240 x 360mm

Instrument weight: 15kg



No.2036

Load type tearing tester

This machine finds uses in testing the tear strength of corrugated board base paper, roofing, woven textile and the like, which the No.2035 cannot measure. A weight mass is fixed to the center of the pendulum to double swing energy. Handling is the same as in the case of the No.2035: the lost energy is read on a scale on the pendulum when the specimen is torn.

Capacity: 0 to 1000, 0 to 2000 (graduation per sheet for 16-sheet specimen)

Referential standards: JIS P-8116-2000, TAPPI T414om-98, ISO 1974

Outer dimensions: 500 x 240 x 360mm

Instrument weight: 17kg

