ElmenGuide
Elmendorf Tear Tester

The ElmenGuide, also known as the Pendulum Tearing Tester, do the test by using a pendulum tearing method. The pendulum falls from a certain starting height, converts all potential energy into kinetic energy, cuts a slit on the fabric, and then measures the force required for the fabric to tear to a specified length, which can be used to calculate the fabric's tear resistance.

It is mainly suitable for woven fabrics, also for other textiles produced by other technologies, such as non-woven fabrics. However, it is not suitable for knitted fabrics, woven elastic fabrics, and fabrics in which the tearing direction will change during testing.

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Power
100~245V 50/60Hz 3A

Weight
70 kg

Dimension
580*420*600mm (D*W*H)

- **The innovative balance pendulum plate design, achieves a higher level of testing accuracy**
  The pendulum arm of ElmenGuide is specially designed, and the center of gravity of the entire pendulum arm coincides with the rotation center when no weights are attached. This results in higher accuracy and reliability of the equipment.

- **Smart instrument**
  Can be connected through Wi-Fi with SmarTexLab App installed in the smart phones, set parameters, monitor the test status, receive equipment warning reminders, replenishment reminders, etc., and share test results with one click.

- **Automatic recognition of weights**
  The machine can automatically recognize the weight attached and adjust to the corresponding range.

- **Humanized design, for more safety**
  The double-button switch design prevents accidents and is more user-friendly for testers.

- **Precise manufacturing and stable operation**
  The fixture rotates flexibly and the loss of empty pendulum is minimal. Multiple measurement units (N, cN, gf, cP) to choose from. In addition, ElmenGuide has a precise appearance design, with an aluminum alloy hard oxidation surface that is sleek, durable, and easy to clean. The trapezoidal chassis is more stable, and the seven-inch color touch screen is simple and easy to use.

Specifications

Load range	8N, 16N, 32N, 64N, 128N
Testing accuracy	≤±0.2%F·S
Tear length	43mm
Automatic incision length	20±0.2mm
Sample size	100×75mm

Accessories

Fuse	2 pcs
Sample cutter	1 pc, 100mm*75mm
Test weight A	1 pc, 8N
Test weight B	1 pc, 16N
Test weight C	1 pc, 32N
Test weight D	1 pc, 64N
Test weight E	2 pcs, 128N
Calibration weight a	1 pc, 8N
Calibration weight b	1 pc, 16N
Calibration weight c	1 pc, 32N
Calibration weight d	1 pc, 64N
Calibration weight e	1 pc, 128N

Standard

ASTM D1424   BS ISO 13937-1   GB/T 3917.1   ISO 4674-2