



Elmendorf Tear Tester

Model 83-76



Elmendorf Tear testing determines the force required to continue the tearing of an initial cut in sheet materials such as paper, plastic film, textile and non-woven.

The Elmendorf Tear Tester is an automated tear tester equipped with an optical encoder for measuring the angular position of the pendulum during tearing and converting this measurement to tear units. A large, full-color touchscreen display with intuitive, easy-to-use software provides a revolutionary new approach to testing and data review.

FEATURES

- 7" full-color digital touchscreen display
- Storage and editing of up to 200 readings
- Universal pendulum with interchangeable weights
- Pneumatic clamps and pendulum release
- Automatic calibration of pendulum
- Multiple data export options: USB flash drive, USB ESC/POS printer, RS232 and GraphMaster™ software
- Selectable units: grams-force, millinewtons, lbs-force, percentage of pendulum capacity
- Onboard statistics: average, min, max, standard deviation
- Clamp pressure in psi and kg/cm
- Calculates force of multiple plies
- Report printout with optional printer



APPLICATIONS

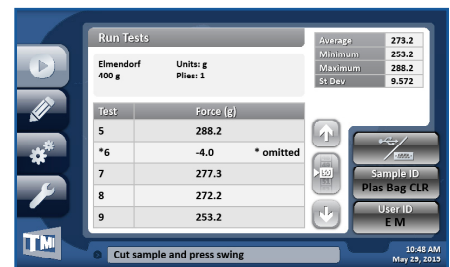
Paper, Foil, Film, Textiles, Nonwovens

PENDULUMS

- 83-76-10 3200 gram pendulum
- 83-76-11 6400 gram pendulum
- 83-76-09 Universal pendulum 200, 400, 800 & 1600 gram pendulums
(the required calibration weights are included)

STANDARDS

Conforms to TAPPI T-414, ASTM D1922, ASTM D1424, ASTM D689, ISO 1974, CPPA d.9, AS/NZ 1301.400S, BS 4468 and SCAN P-11



Easy-to-use, full color touchscreen interface



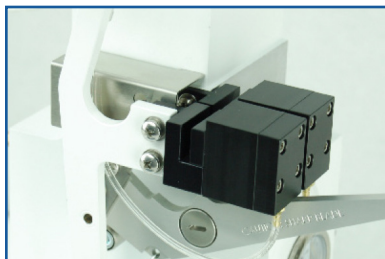
Improved, intuitive software and new 7" digital touchscreen display

Elmendorf Tear Tester

Model 83-76



Pneumatic clamps



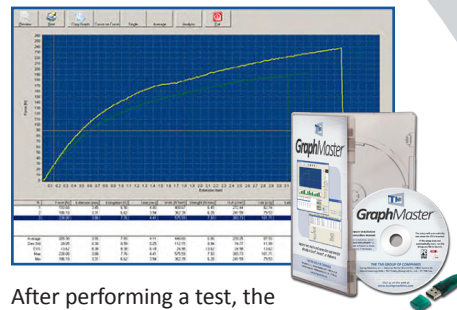
Simple, two-button operation of the pneumatic clamp and swing ensures efficient testing. Total clamping width of 76 mm meets constant radius and rectangular film specimen dimensions.

Universal pendulum



A universal pendulum with quick change hardware and weights provides multiple testing options. The required calibration weights are also included.

GraphMaster™ software



After performing a test, the operator can save all curve and test result data directly to an external PC with optional GraphMaster™ software.

Pendulum compatibility



Existing model **83-11 Elmendorf Tear Tester pendulums** are compatible with the new 83-76 unit, preventing the need for additional pendulums.

Pneumatic sample press



Two sample presses are available for sample preparation. Model 22-70-01 is an affordable manual press. The **22-70-02** (pictured), includes a safety shield and is pneumatically controlled.

Triple shear sample cutter



The **83-20-08 Sample Cutter** produces rectangular samples for paper and textile testing based on ASTM D 689 and TAPPI T 414 specifications.

SPECIFICATIONS	
Selectable units	Percentage (%), Millinewtons (mN), Grams-force (gf), Pounds-force (lbf)
Sample statistics	Average, High/Low results, Standard deviation
Available pendulums	83-76-10 3200 gram pendulum 83-76-11 6400 gram pendulum 83-76-09 Universal pendulum 200, 400, 800 & 1600 gram (<i>calibration weights included</i>)
Pneumatic clamps	Total clamping width of 76 mm meets constant radius and rectangular film specimen dimensions
Additional options	GraphMaster™ software, Printer
Output	USB flash drive, USB ESC/POS printer, RS232, GraphMaster™ software
Power	120/240 VAC 50/60 Hz
Air	600 kPa (87 psi) - IG4 Instrument Grade Air (ISO Class 1-4-1), ¼" OD tubing
Dimensions (WxDxH)	12 in x 12 in x 20 in (305 mm x 305 mm x 508 mm)
Weight (approx.)	23 lbs (10.4 kg)

