

ELMENDORF TEAR TESTER

The **Elmendorf Tear Tester** offered by Ray-Ran is a powerful and versatile instrument designed for accurately testing not only textiles and nonwovens, but a wide variety of similar materials, including paper, board and plastic. It has been designed with contemporary styling and sophisticated controls that simplify and accelerate routine tear testing procedures.

The instrument's intelligent operating system is equipped with industry-specific features and terminologies for the user's convenience and ease of operation. For simplicity the operator selects the unit of measurement and the number of plies using a state of the art LCD touch screen display. Visible and audible indicators also confirm valid test results or signal the need to change the number of plies and/or the pendulum weight.

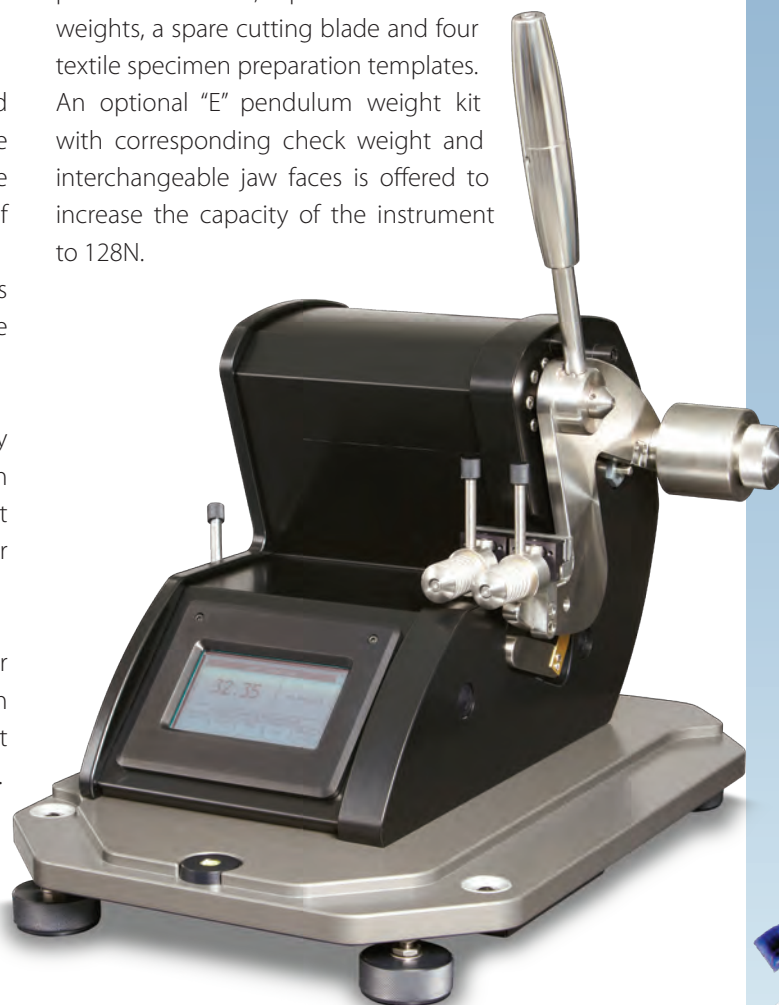
Another major feature of the apparatus is the quick and easy specimen clamping fixture which uses innovative rotary cam locking jaws and the built in automatic pendulum weight detection system with automatic zeroing which further reduces operator error.

During the test procedure the operation of Elmendorf Tear Tester is intrinsically safe. The electrical interlock system requires both hands to release the pendulum and after a test has been conducted, the pendulum is automatically arrested.

Test results are displayed automatically after each test ensuring no complicated calculations have to be made. Statistical analysis is possible without the need of

connection to a computer, however the optional PC software package is designed to provide tools for saving, recalling, deleting and printing test results.

The Elmendorf Tear Tester is supplied complete with a full set of pendulum weights equivalent to the traditional pendulums A-D, pendulum check weights, a spare cutting blade and four textile specimen preparation templates. An optional "E" pendulum weight kit with corresponding check weight and interchangeable jaw faces is offered to increase the capacity of the instrument to 128N.



ELMENDORF TEAR TEST (RR/ETT)

TECHNICAL SPECIFICATION

- LCD graphics touch-screen
- User friendly software
- Units of measurement N, cN, mN, kgf, gf, lbf, ozf
- Angular resolution 0.09 degrees
- Number of specimens (plies) 1 to 16
- Maximum specimen thickness 5mm
- Cut length 15mm or 20mm
- Tear length 43mm
- Pendulum weights (A-D) 8N, 16N, 32N, 64N
- Calibration check weights for each pendulum
- Automatic pendulum weight detection
- Automatic zeroing
- Two-handed pendulum release
- Automatic pendulum arrest
- Sample 'notched' sensor
- Interchangeable jaw faces (E Kit only)
- Visual and audible limits warnings
- 4 Sample preparation templates
- USB PC connection
- Power Supply 85 - 264VAC 50/60Hz 60W
- Product user manual
- CE declaration certificate
- 1 year return to base warranty

CONFORMS TO:

- **Textile:** ASTM D 1424, DIN 53862, EN ISO 13937-1, ISO 4674-2 AND ISO 9290, M&S P29, NEXT 17, NF G07-149
- **Paper:** APPITA P 400, ASTM D 689, BS 4468, CSA D9, DIN 53128, EN 21974, GB/T 455, ISO 1974, JIS P 8116, PAPTAC D9 AND SCAN P11, SNV 198482, TAPPI T414, UNI 6444
- **Plastics:** ASTM D 1922, GB/T 11999, ISO 6383-2, JIS K 7128-2, NF T54 141
- **Nonwovens:** ASTM D 5734, WSP 100.1

OPTIONAL ANCILLARIES

- PC software package
- Pendulum Weight Kit (E) 128N with Interchangeable jaw faces

WEIGHTS & DIMENSIONS: RR/ETT

Net Weight (kg)	57
Width (cm)	40
Depth (cm)	50
Height (cm)	55