

Elmatear² 855

INTELLIGENT DIGITAL TEAR TESTER



HEAL'S Elmatear² is a powerful and versatile Digital Tear Tester for accurately testing **textiles**, **nonwovens** and a wide variety of similar materials, including **paper**, **board** and **plastic**.

The extensively re-designed Model 855 features contemporary styling and sophisticated new controls that **simplify** and **accelerate** routine tear testing.

- The instrument's **intelligent operating system** is equipped with industry-specific features and terminologies for the user's convenience and ease of operation.
- The operator selects the unit of measurement and the number of plies, using a **state-of-the-art LCD Touch Screen**. Test results are displayed digitally - **no cumbersome calculations are required**. Visible and audible **indicators** confirm valid results or signal the need to change the number of plies and/or the pendulum weight.
- **Automatic pendulum weight detection** and **automatic zeroing** have been incorporated to further diminish the scope for operator error.
- Another major feature of Elmatear² is **quick and easy specimen clamping** using innovative rotary cam lock jaws.
- **Statistical analysis** is possible without the need of connection to a PC. However, the **PC Software Package** is designed to provide tools for saving, recalling, deleting and printing test results.
- The operation of Elmatear² is intrinsically **safe** – release of the pendulum requires both hands, finger traps have been eliminated and, after a test, the pendulum is automatically arrested.
- Elmatear² is **supplied complete** – the price of the equipment includes a **full set of Pendulum Weights** (equivalent to the traditional pendulums A–D) as well as corresponding check weights, a spare 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.

- KEY FEATURES

- > LCD graphics touch-screen
- > 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
- > USB PC connection
- > Optional datalogger software

- PENDULUM WEIGHTS

Weight	N	cN	mN	kgf	gf	lbf	ozf
A	8	80	8000	0.82	816	1.8	29
B	16	160	16000	1.63	1632	3.6	58
C	32	320	32000	3.26	3263	7.2	115
D	64	640	64000	6.53	6526	14.4	230
E	128	1280	128000	13.05	13052	28.8	460

* Figures assume 1 ply, e.g. for 4 plies divide figures by 4.

- STANDARDS

Textile	ASTM D 1424 DIN 53862 EN ISO 13937-1 ISO 4674-2 ISO 9290 M&S P29 NEXT I7 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 SCAN P11 SNV 198482 TAPPI T414 UNI 6444
Plastics	ASTM D 1922 GB/T 11999 ISO 6383-2 JIS K 7128-2 NFT54 141		
Nonwovens	ASTM D 5734 WSP 100.1		

- TECHNICAL DATA

Standard Pendulum Weights (A-D)	8N, 16N, 32N, 64N
Optional Pendulum Weight (E)	128N
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
Blade	Titanium nitride coated
Calibration Check	Check Weights for each Pendulum
Weight	57kg
Dimensions	400 x 500 x 550mm
Power Supply	85 - 264VAC 50/60Hz 60W
Warranty	18 Months

- HOW TO ORDER

903-303	Elmatear² Intelligent Digital Tear Tester	85-264V 50/60Hz
	Capacity: 6400gf (14.1 lbf) Standard accessories: 4 Pendulum Weights (A-D) 4 Check Weights (A-D) 4 Textile Specimen Preparation Templates	
201-855	ISO Certificate of Calibration for Elmatear²	
794-742	PC Software Package (Data Logger)	
794-736	E-Pendulum Kit	
	Extends capacity to: 12800gf (28.2 lbf) Comprising: 1 x Set Pendulum Weights (E) 1 x Check Weight (E) 1 x Set (4) Serrated Jaw Inserts 1 x Set (4) Puncture Pin Jaw Inserts (including pins)	
855-spares	2-year Spares Kit	



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