

# Model ME Series Elmendorf Tear Tester for Plastic Film, Sheet, Paper

## Full-Featured Mechanical Tear Testers for Film and Paper

Advanced mechanical tear testers available with 800, 1600, 3200, and 6400 gram (7840, 15600, 31360, 62720 mN) maximum capacity pendulums. Oakland Instruments' ME Series Tear Tester answers your need for a simple to use, stand-alone, non-instrumented tester, for measuring tear resistance of film, paper, sheet, laminated materials, and converted products.

## Improved Film and Sheet Quality, Increased Profit Margins

The ME Series Elmendorf Tear Tester is a proven tool for more closely controlling tear characteristics to speed your:

- Production and additives settings and adjustments.
- Research and development of new film and sheet products.
- Inspection of incoming film and sheet products.
- In-process checks to ensure on-spec product for converting operations.

## Conforms to ASTM, ISO & TAPPI Test Standards

Conforms to specifications for ASTM D689, ASTM D1424, ASTM D1922, ASTM D3420, ISO 1974, ISO 6383-2 and TAPPI T-414 for propagation tear resistance of plastic film, thin plastic sheeting, paper and fabrics.

## Advanced Technical Features and Accessories

### Calibration Certificates for Pendulums

Each tear tester Pendulum is serialized and certified to assure conformance to your ASTM, ISO and TAPPI standards for quality control.

### Accessories Available

Interchangeable pendulums for testing a wide range of materials with a single tester, calibration weights for single point calibration verification, integrated cutting mechanisms for high volume testing applications. Each system includes sample data sheets, conforming to ASTM D-1922 reporting requirements, in Microsoft Excel™ format. Sample cutters, cutting templates, and thickness micrometer systems are also available to provide a complete testing system for your laboratory or plant floor.



The Model ME-800 Elmendorf Tear Tester with Manual Sample Clamps and Integral Sample Cutting Knife Mechanism

### Oakland Instrument Corp.


Oakland Instrument Corp. specializes in the design, manufacture and distribution of test, measurement and control systems for the plastics, flexible packaging, and paper industries.

### Customer-Driven

We team with our customers to help them solve their quality and process-control problems.

### Technology-Based

Our applications knowledge and engineering depth allow us to offer both standard and custom systems based on industry leading technology.

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**ELMENDORF TEARING RESISTANCE CHART**  
(Per ASTM D-1922)

Customer: \_\_\_\_\_ Test Conditions: \_\_\_\_\_ Laboratory: \_\_\_\_\_  
 Sample: \_\_\_\_\_ Operator: \_\_\_\_\_  
 No. Samples Tested: \_\_\_\_\_ Specimen Type: \_\_\_\_\_ Elmendorf Tester Model No.: \_\_\_\_\_  
 Per Pendulum Tester: \_\_\_\_\_  Rectangular  Triangular Instrument Model No.: \_\_\_\_\_  
 Units: Tearing Resistance: \_\_\_\_\_  Constant Method  Sample Cutter Model No.: \_\_\_\_\_  
 2-grip  3-grip  4-grip  5-grip  6-grip  7-grip  8-grip  9-grip  10-grip  11-grip  12-grip  13-grip  14-grip  15-grip  16-grip  17-grip  18-grip  19-grip  20-grip  21-grip  22-grip  23-grip  24-grip  25-grip  26-grip  27-grip  28-grip  29-grip  30-grip  31-grip  32-grip  33-grip  34-grip  35-grip  36-grip  37-grip  38-grip  39-grip  40-grip  41-grip  42-grip  43-grip  44-grip  45-grip  46-grip  47-grip  48-grip  49-grip  50-grip  51-grip  52-grip  53-grip  54-grip  55-grip  56-grip  57-grip  58-grip  59-grip  60-grip  61-grip  62-grip  63-grip  64-grip  65-grip  66-grip  67-grip  68-grip  69-grip  70-grip  71-grip  72-grip  73-grip  74-grip  75-grip  76-grip  77-grip  78-grip  79-grip  80-grip  81-grip  82-grip  83-grip  84-grip  85-grip  86-grip  87-grip  88-grip  89-grip  90-grip  91-grip  92-grip  93-grip  94-grip  95-grip  96-grip  97-grip  98-grip  99-grip  100-grip

Tester Capacity, g: \_\_\_\_\_  
 Pendulum: \_\_\_\_\_  
 Add Weight: \_\_\_\_\_  
 Test Pendulum Capacity: \_\_\_\_\_

Specimen Direction: \_\_\_\_\_  
 Machine Direction  Transverse Direction  
 Diagonal  Diagonal

TEST RESULTS: \_\_\_\_\_

Thickness (microns, mils): \_\_\_\_\_

Machine: \_\_\_\_\_

Operator: \_\_\_\_\_

Date: \_\_\_\_\_

## Specifications

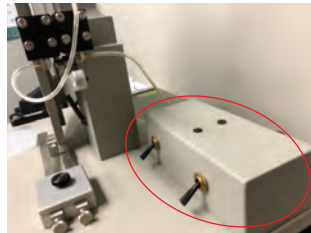
	<b>Model ME-800</b>	<b>Model ME-1600</b>	<b>Model ME-3200</b>	<b>Model ME-6400</b>
Mode of Operation:	Off-line testing / lab use	Off-line testing / lab use	Off-line testing / lab use	Off-line testing / lab use
Materials:	All sheet materials	All sheet materials	All sheet materials	All sheet materials
Measurement Capacity: (One Pendulum Included)	800 gram (7840 mN)	1600 gram (15600 mN)	3200 gram (31360 mN)	6400 gram (62720 mN)
Additional Pendulums: (Available as Option)		800 gram (7840 mN)	1600 gram (15600 mN) 800 gram (7840 mN)	3200 gram (31360 mN) 1600 gram (15600 mN) 800 gram (7840 mN)
Sample Grip Style:	Manual / Mechanical	Manual / Mechanical	Manual / Mechanical	Manual / Mechanical
Additional Grips: (Available as Option)		Available	Available	Available
Integral Sample Cutting Knife:	Optional	Optional	Optional	Optional
Power Requirements:	N/A	N/A	N/A	N/A
Dimensions (W x D x H): (Instrument Only)	45 x 33 x 50 cm (18 x 13 x 20 inch)	45 x 33 x 50 cm (18 x 13 x 20 inch)	45 x 33 x 50 cm (18 x 13 x 20 inch)	45 x 33 x 50 cm (18 x 13 x 20 inch)
Dimensions (W x D x H): (Shipping)	50 x 40 x 60 cm (20 x 16 x 24 inch)	50 x 40 x 60 cm (20 x 16 x 24 inch)	50 x 40 x 60 cm (20 x 16 x 24 inch)	50 x 40 x 60 cm (20 x 16 x 24 inch)
Weight (Instrument Only):	16 kg (35 lb)	16 kg (35 lb)	16 kg (35 lb)	16 kg (35 lb)
Weight (Shipping):	19 kg (40 lb)	19 kg (40 lb)	19 kg (40 lb)	19 kg (40 lb)

(Due to continuous product improvement, all specifications are subject to change without notice.)

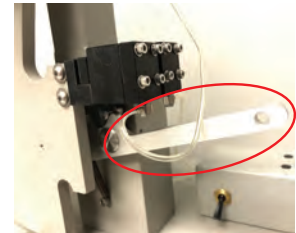
## Options and Accessories



Pneumatic Sample Clamp



Pneumatic Sample Clamp Control Switches



Integral Sample Cutting Knife



Pendulum Calibration Weights



D-Shaped Sample Cutting Template



Interchangeable Pendulum Weights

### Ordering Information



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