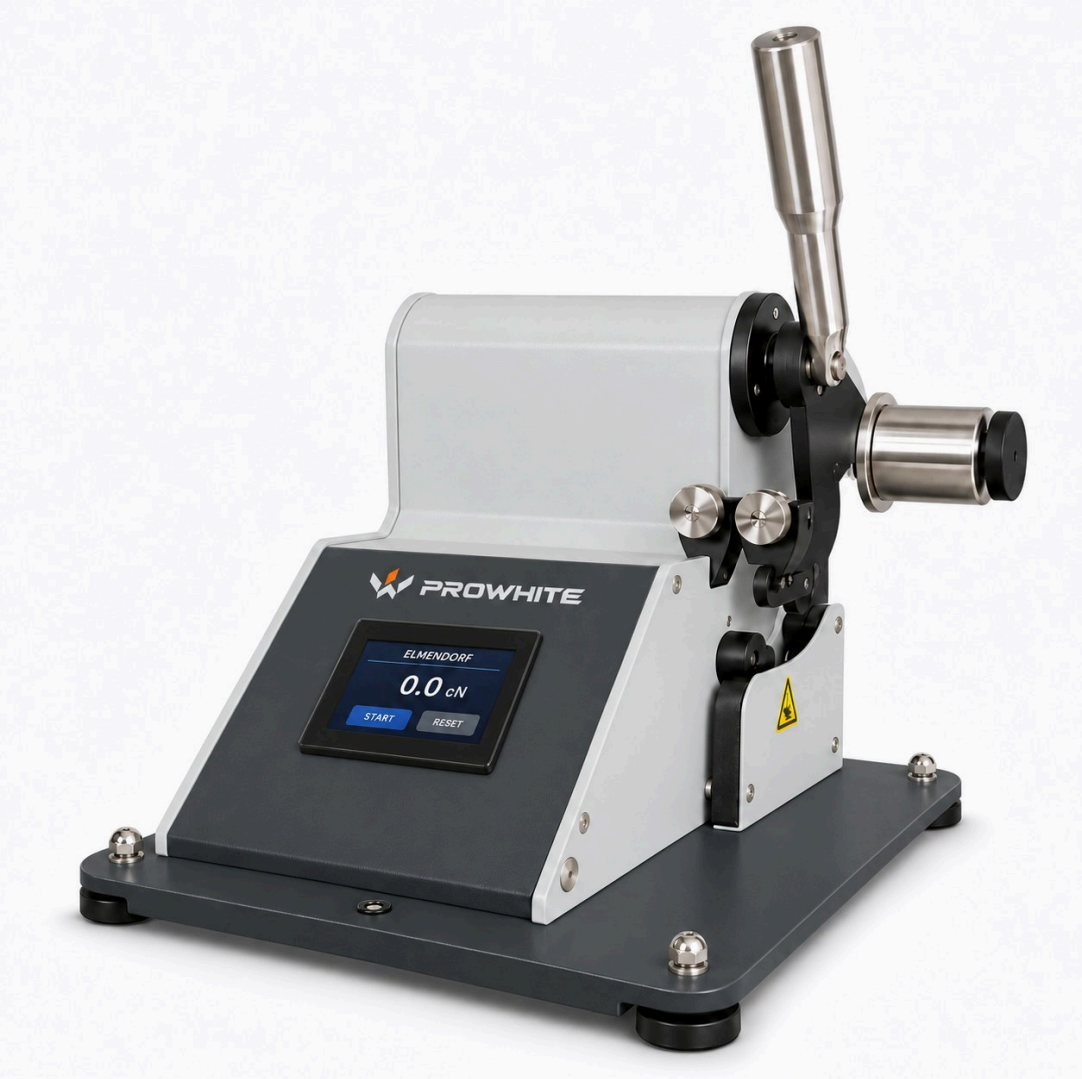
PROWHITE

PW-K006 / ELMENDORF

Elmendorf Tearing Strength Tester

Ballistic pendulum tear testing for textiles, coated fabrics and paper specimens.



The interface shown in the product image is illustrative.

8-64 N
Four capacity ranges

4.3"
Touchscreen control

RS232
PC connection

Precision at Every Stage. Confidence in Every Test.

PROWHITE

TEST PRINCIPLE AND APPLICATION

Measure the force that propagates a tear.

The Elmendorf method determines the average force needed to propagate a tear from a pre-cut slit by measuring the energy lost by a swinging pendulum.



Specimen materials and laboratory context - illustrative application image.

01

Prepare the specimen

Cut specimens to the applicable method; identify test direction and number of plies.

02

Clamp and cut

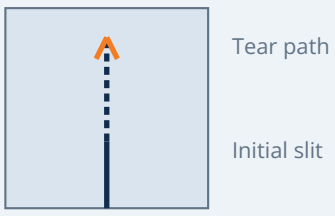
Position the specimen in the jaws, form the initial slit and select a suitable pendulum range.

03

Test and evaluate

Propagate the tear with the pendulum; review the result and series statistics on screen.

Specimen and tear direction



Schematic specimen view

For consistent test results

Condition specimens as required by the applicable standard. Evaluate warp/weft or machine/cross directions separately. Handle slippage, cross-direction tearing and out-of-range results according to the test procedure.

Technical specifications

Measuring principle	Ballistic pendulum / Elmendorf
Pendulum capacities	800 / 1600 / 3200 / 6400 cN
Force equivalent	8 / 16 / 32 / 64 N
Control and interface	4.3-inch touchscreen PLC/HMI
Result display	Test result, pendulum selection and specimen count
Evaluation	On-screen series statistics
Force units	mN, cN, N, gf, kgf, ozf, lbf
Data output	RS232 PC connection

Select the range for your specimen

800 cN 8 N	**1600 cN** 16 N	**3200 cN** 32 N	**6400 cN** 64 N

Applicable test methods

EN ISO 13937-1 / ASTM D1424
Pendulum tear testing of textile fabrics

ISO 4674-2
Ballistic pendulum testing of coated fabrics

ISO 1974 / TAPPI T414
Elmendorf tearing resistance of paper

Apply specimen geometry, preparation and evaluation according to the selected method.

APPLICATIONS AND CONTACT

From quality control to material development

Textiles and apparel

Compare tearing behaviour in the warp and weft directions of woven fabrics.

Technical and coated fabrics

Assess the effects of material, coating and process changes on tear resistance.

Paper and suitable board grades

Examine tearing resistance using a method suited to the material and specimen structure.

Standard delivery

PW-K006 main instrument, 4.3-inch touchscreen interface and RS232 output. The pendulum configuration follows the capacity scope selected with the order.

Additional equipment

Specimen cutting templates, cutting blades and pendulum/weight configurations for different capacity requirements.

Specify the right configuration for your application.

Share your specimen type, test method and capacity requirements.

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