



SAHARANPUR TESTING INSTRUMENTS PVT LTD

Manufacturer & Suppliers of All Kind of Pulp, Paper, Board, Tissue,
Packaging, Converting & General Testing Instrument for Laboratory

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Elmendorf Tear Tester



Usage : for measuring the tearing resistance of paper or similar materials .

Definition : This method measures the force perpendicular to the plane of the paper required to tear multiple plies through a specified distance after the tear has been started using an Elmendorf-type tearing tester. The measured results can be used to calculate the approximate tearing resistance of a single sheet.

More than one sheet of the sample material are torn together through a fixed distance by means of the pendulum of an Elmendorf-type tearing tester. The work done in tearing is measured by the loss in potential energy of the pendulum. The average force exerted when a certain number of plies are torn together (work done divided by the total distance torn).

Standardization : TAPPI T-414 , APPITA P-400 , SCAN P-11 , ASTM D 689 , D 751 , D 1424 , IS 1060 , IS 1991.

Device Description : Easy to operate and has high accuracy level $\pm 1\%$ of readout value and reliability with adjustable base leveling screws. Incision knife of hardened and ground spring steel . precision clamps with controlled jaws made of SS. Extra light low friction pointer with friction lining of textile materials. The complete pendulum is interchangeable . the scale is calibrated in mN/gmForce.

Test Description : the operator places the samples and an initial cut is made in set of four test pieces which are then torn through a given distance .the work done in tearing the test pieces is measured as the loss in potential energy of a pendulum . Again The instrument is ready for further measurements.

Specifications :

Height	62mm \pm 0.2mm
Length	50 \pm 2.0 mm
Pendulums	Interchangeable
Weights	Calibrated check weights
Sample Preparations	Tearing Sample Cutter

Delivery Content :

Consumables :

Service and Startup :