

Tearing Strength Tester - Elmendorf



Product Info :

Tearing Strength Tester is a free-falling pendulum structure designed to perform an Elmendorf type tearing test. It helps evaluate the ballistic tearing strength of textiles, plastics, paper or board by applying sudden load to a half section of the material and ripping the sample apart. With the application of distinct weights, users can evaluate the exact amount of force required to tear the sample and which further defines its tearing strength. Material like textile or paper are highly sensitive to external pull or push forces. While in the production line, they tend to experience sharing forces like - being stretched, pulled, pressed, dropped, pulled or under vertical load. To survive all of that the material's tearing strength must be as per industry standards. The tearing strength of material decides the amount of force it can take until it tears and fail in performance.

It is very important that before taking the raw textile or paper material in use to deliver the end product, they are tested thoroughly for their strength capacity. In absence of a quality evaluation beforehand, the material may lead to the production of low-strength products hampering client user experience along with pulling the brand reputation down. Tearing strength tester is a high-end quality testing equipment used to evaluate the resistance strength of textile, plastic or paper material against free-falling pendulum. The test sample is clamped using sample holding fixtures. One can tighten the sample as per their test requirement. Once the sample is fixed the pendulum can be loaded with a defined weight required for the test and the pendulum is pulled at a fixed height and held with at a point. The pendulum is raised to the maximum possible height to gain the maximum potential energy.

TECHNICAL DATA :

- Tearing Capacity: 1600 g (The capacity can be increased to 3200 g or 6400 g by adding augmenting weight as per client or industry requirement)
- Tearing Distance : 43 +/-0.15 mm
- Size of Slit: 20 mm
- Scale Reading Range: 0 to 100%
- Tearing Test Accuracy: $\pm 2\%$ within the entire range
- Least count of scale: 1%
- Pendulum Release Mechanism Used: Manual through Brake Release Pin
- International Tearing Test Standards Followed: ASTM D1424 – 09(2013)1, ASTM D624 – 00(2012), ASTM D689

FEATURES :

- Consists of a free-falling pendulum
- High-quality rugged structure with the corrosion-resistant main body
- Single-handed hassle-free operation
- Highly accurate test results under multiple pendulum weights
- Strong gripping fixture for holding test samples
- Inbuilt calibration weights to deliver high accuracy

Our Valuable Customer



Pacorr Testing Instruments Pvt. Ltd.

11/15, Site-4 Industrial Area, Sahibabad, Ghaziabad- 201010, Contact No: +91-8882149230, Email Id: info@pacorr.com