

FTS-01 Elmendorf Tearing Tester

FTS-01 Elmendorf Tearing Tester is designed for the tearing test of films, sheets, flexible PVC, PVDC, waterproof films, woven materials, polypropylene, polyester, paper, cardboard, textiles and nonwovens.



Technical Features

- Controlled by computer with automatic and electronic measurement which is convenient for the operation
- Pneumatic specimen clamping and automatic release of pendulum could avoid the system error effectively
- Equipped with pendulums of multiple capacities, maximum up to 6400gf
- Multiple unit display of experimental results
- Computer assisted horizontal adjustment system could maintain the instrument optimum status
- Equipped with RS232 port which is convenient to the data transmission and external connection

Test Principle

Lift the pendulum up to a certain height to give it an initial potential energy. The pendulum tears the specimen while swinging down. Computer calculates the decreased energy caused by tearing to obtain the required force for tearing.

Applications

Basic Applications	Plastic films and sheets
	Paper and Paperboard
	Textiles
Extended Applications	Heavy Package Bags
	Rubber Gloves
	Wrapping Films

Technical Specifications

Specifications	FTS-01
Pendulum Capacity	200 gf, 400 gf, 800 gf, 1600 gf, 3200 gf, 6400 gf
Sample Holder	Pneumatic
Pendulum Release	Pneumatic
Gas Supply Pressure	0.6MPa (Not in Supply Scope)
Port Size	Φ4 mm PU Tubing
Instrument Dimension	480 mm (L) × 380 mm (W) × 560 mm (H)
Power Supply	AC 220V 50Hz / AC 120V 60HZ
Net Weight	24.5 kg (Basic Pendulum of 200 gf)

Standards

ISO 6383-1-1983, ISO 6383-2-1983, ISO 1974, GB/T16578.2-2009, GB/T 455, ASTM D1922, ASTM D1424, ASTM D689, TAPPI T414

Configuration

Standard Configuration: Instrument, One Basic Pendulum, One Augmenting Weight, One Check Weight

Optional Parts: Basic Pendulum: 200 gf, 1600 gf
Augmenting Weight: 400 gf, 800 gf, 3200 gf, 6400 gf
Check Weight: 200 gf, 400 gf, 800 gf, 1600 gf, 3200 gf, 6400 gf
Computer, Sampler

Note: 1. The gas supply port of the instrument is $\Phi 4$ mm PU Tubing;
2. Customers will need to prepare for gas supply.