

i-Lacera 5500 Tear Tester

- ❖ Online Data Management for Packaging Testing - The ultimate cloud computing technology for test data processing and management
- ❖ Can be used to test the tear resistance of the films, sheets, PVC, PVDC, waterproof sheeting, paper, paper board, textiles and non-woven fabrics
- ❖ Conforms to ASTM, ISO, TAPPI and other international standards



Online data management system for packaging testing

Comes with two versions to meet distinct needs of our clients:

The Cloud Version

- Consist of 6 functional modules: Test Management, Target Management, Instrument Management, File Management, Settings, and Online Support
- Cloud services: storage, calculation, and analysis of mass test data
- Automatically upload original test data to the cloud server to guarantee data security
- Intelligent statistical analysis of test results
- Easily accessible through the internet on PCs, laptops, mobile phones, and other devices anywhere and anytime, to check and review real time test results and historical test reports, as well as analytical graphs and statistical information

The Intranet Version

- Featured with storage space for vast data, correlation analysis, trend analysis, and statistical analysis of test data, as well as report printing and data export functions
- Easily accessible via computers through Intranets
- “One Click Upgrade” to the powerful “Cloud Version”

Functionality

- Adjustable test range and electronic measurement make it possible to perform tests at various test conditions
- Pneumatic specimen clamping, pendulum release mechanism and horizontal adjustment system effectively reduce the errors caused by human operation
- System provides automatic statistics of testing data and exports test results in different units, which is convenient for client viewing
- The instrument is easily controlled by micro-computer with menu interface, PVC operation panel and large LCD display
- Equipped with micro printer for convenient data transmission
- Sophisticated energy consumption and test environment monitoring and analysis functions for better test accuracy and reliability. The system monitors and displays real-time voltage, current, energy consumption, and inclination angle of instrument as well as ambient temperature and relative humidity during the test, which serves to evaluate test data reliability. (Relevant sensors are needed. For more information, please refer to the configuration in Technical Specifications.)
- Easy calculation for historical results, instrument usage, energy consumption, and vast statistical information

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
- ❖ This instrument conforms to the following standards:
ASTM D1922, ASTM D1424, ASTM D689, ISO 6383-1-1983, ISO 6383-2-1983, ISO 1974, GB/T 16578.2-2009, GB/T 455-2002, TAPPI T414

Applications

This instrument can be used to measure the tear resistance of:

Basic Applications	PVC, POF, polyester, composite films and sheets
	Paper and Paperboard
	Textiles and Non-woven Fabrics
	Aluminum Foils and Aluminum Composite Films
	Waterproof Composite Materials

Technical Specifications

Test Specs	Pendulum Capacity	200 gf, 400 gf, 800 gf, 1600 gf, 3200 gf, 6400 gf
	Gas Supply Pressure	0.6 MPa (outside of supply scope)
	Port Size	Φ4 mm PU Tubing
Environment	Voltage Monitoring Range	AC 0 ~ 250 V, with ±0.5% accuracy

Monitoring Specs (Optional)	Current Monitoring Range	0 ~ 15 A, with $\pm 0.5\%$ accuracy
	Energy Analysis Accuracy	$\pm 0.5\%$
	Environmental Temperature Monitoring Range	-10 °C ~ 55 °C, with ± 0.1 °C accuracy
	Environmental Humidity Monitoring Range	0 ~ 100% RH, with $\pm 2\%$ RH accuracy
	Inclination Angle Monitoring Range	-10°~10°
Other Specs	Instrument Dimension	480 mm (L) x 380 mm (W) x 560 mm (H)
	Power Supply	AC (85 ~ 264) V (47 ~ 63) Hz
	Net Weight	24.5 kg (Basic Pendulum of 200 gf)
Configurations	Standard	Mainframe (including Wireless Data Interface), One Basic Pendulum, One Extra Weight, One Calibration Weight
	Optional	Environmental Monitoring Sensors (including voltage, current, temperature, humidity and inclination sensors), Sample Cutter Basic Pendulum: 200 gf, 1600 gf Extra Weight: 400 gf, 800 gf, 3200 gf, 6400 gf Calibration Weight: 200 gf, 400 gf, 800 gf, 1600 gf, 3200 gf, 6400 gf
	Online Data Management System for Packaging Testing	Wireless Data Transfer Module, High Gain Antenna

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

Please Note:

- ❖ Pictures used are for illustration purposes only and may differ from the actual product received.
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