

SLY-S1 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.



Professional Technology

- The instrument is 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
- Computer assisted horizontal adjustment system could maintain the instrument optimum status
- Equipped with pendulums of multiple capacities
- Professional software supports multi-unit data output
- Equipped with RS232 port which is convenient to the data transmission and external connection
- Supports Lystem™ Lab Data Sharing System for uniform and systematic data management

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 various national and international standards:

ISO 6383-1-1983, ISO 6383-2-1983, ISO 1974, ASTM D1922, ASTM D1424, ASTM D689, TAPPI T414, GB/T 16578.2-2009, GB/T 455

Applications

Basic Applications	Plastic films and sheets e.g. polyolefin, polyester and aluminum plastic composite films
	Paper and Paperboard
	Textiles
Extended Applications	Heavy Package Bags
	Rubber Gloves
	Wrapping Films
	Paper Metro Tickets

Technical Specifications

Specifications	SLY-S1
Pendulum Capacity	200gf, 400gf, 800gf, 1600gf, 3200gf, 6400gf
Gas Supply	0.6 MPa (outside of supply scope)

Pressure	
Port Size	Φ4 mm PU Tubing
Instrument Dimension	480 mm (L) x 380 mm (W) x 560 mm (H)
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	23.5 kg (Basic Pendulum of 200gf)

Configurations

Standard Configurations	Instrument, One Basic Pendulum, One Extra Weight, One Calibration Weight, Professional Software and Communication Cable
Optional Parts	Basic Pendulum: 200gf, 1600gf
	Extra Weight: 400gf, 800gf, 3200gf, 6400gf
	Calibration Weight: 200gf, 400gf, 800gf, 1600gf, 3200gf, 6400gf
	Sample Cutter
Note	1. The gas supply port of this instrument is Φ4 mm PU Tubing; 2. Customers will need to prepare for gas supply.

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