

C680M Tearing Tester is suitable for testing tear resistance of film, sheet, soft PVC, PVDC, water-proof roll, woven material, polyolefin, polyester, paper, paperboard, textile and non-woven fabric, etc.



Product Features ^{Notes1}

- Computer control, automatic electronic measurement, easy to operate.
- Pneumatic sample clamping and automatic pendulum release can effectively avoid the systematic error caused by human factors.
- Computer assisted adjustment system can ensure the instrument is always in the best test state.
- It can be equipped with multiple groups of pendulum capacity to meet different test requirements.
- Professional software supports the data output of various test units.
- Standard RS232 interface is convenient for external access and data transmission of the system.

Testing Principle

Lift the pendulum to a certain height to make it have a certain potential energy; when the pendulum swings freely, it uses its own stored energy to tear the sample; the computer control system calculates the energy consumed in tearing the sample, so as to obtain the force required for tearing the sample.

Reference Standard ^{Note 1}

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

Test Applications

Basic Applications	Plastic film, sheet, such as polyolefin, polyester, aluminum plastic composite film, etc
	Paper, cardboard
	Textile materials
Extended Applications	Heavy bag
	Rubber latex gloves
	stretch film
	Paper subway ticket

Technical Parameters ^{Note 2}

Items	Parameters
Pendulum Capacity	200gf、400gf、800gf、1600gf、3200gf、6400gf
Air Source Pressure	0.6 MPa (supplied by user)
Air Connection	Φ 4 mm polyurethane pipe
Dimensions	480 mm (L) × 380 mm (W) × 560 mm (H)
Mainframe Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight of Mainframe	40kg (200gf basic pendulum)

Product Configuration ^{Note 1}

Standard configuration	Mainframe, 1 Basic pendulum, 1 calibration weight, professional software, communication cable
Options ^{Note 3}	Basic pendulum: 200gf, 1600gf
	Weight gain: 400gf, 800gf, 3200gf, 6400gf
	Calibration weights: 200gf, 400gf, 800gf, 1600gf, 3200gf, 6400gf computer
Notes	The air source interface of the machine is Φ 4 mm polyurethane pipe; the air source is provided by the user

Note 1: The product functions, reference standards and configuration information are subject to the specific marks in the "technical indicators".

Note 2: the parameters in the table are measured by professional operators in Labthink laboratory according to the requirements and conditions of relevant laboratory environmental standards.

Note 3: "basic pendulum" should select at least one pendulum capacity, "correction weight" should be consistent with the pendulum capacity, and it should be noted when placing an order.

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