

**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 <sup>Notes1</sup>

- 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 <sup>Note 1</sup>

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

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

### Technical Parameters <sup>Note 2</sup>

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

### Product Configuration <sup>Note 1</sup>

<b>Standard configuration</b>	Mainframe, 1 Basic pendulum, 1 calibration weight, professional software, communication cable
<b>Options</b> <sup>Note 3</sup>	Basic pendulum: 200gf, 1600gf
	Weight gain: 400gf, 800gf, 3200gf, 6400gf
	Calibration weights: 200gf, 400gf, 800gf, 1600gf, 3200gf, 6400gf computer
<b>Notes</b>	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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