



## Universal Tensile Testing Machine / Tear Resistance Tester to Test Tensile Strength

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### Universal Tensile Testing Machine / Tear Resistance Tester to Test Tensile Strength (HD-B609A)

#### APPLICATIONS

1. Tested sample: plastic films, laminated materials, adhesive tapes, adhesive bandage (plaster), release paper, plastic films, leather, rubber & plastic, paper, fiber, etc.
2. Different test with different grips: tensile, peel, tear, heat seal, adhesive, bend and open force.
3. Deformation under defined load: Test deformation under defined load of tested sample
4. Load under defined deformation: Test load under defined deformation of tested sample
5. Software can issue word/excel report with results for max. force, elongation, tensile strength, peel strength, tear strength, compression strength, etc.

#### Film/Plastic Film

- ASTM D882: Tensile Test
- ASTM F1306: Puncture Test
- ASTM D1938: Trouser Tear Test
- ASTM D2732: Thermal Shrinkage Test
- ASTM D1709, ISO 7765-1: Free-Falling Dart Method
- ASTM D1894: Static and Kinetic Coefficients of Friction
- ASTM D1424, ASTM D1922, ISO 1974: Elmendorf Tearing Strength Test

#### Instruction:

1. Power switch: main switch of the machine

2. Power indicator light: The power indicator light will be on when power on. It will be off when power off or electricity is not ok.
3. Emergency switch: This key can help to stop the machine immediately when there is an abnormality.
4. Speed adjuster: the speed adjust button to pull the upper fixture
5. Upper and lower fixture
6. Length sensor: it will sensor the resistant strength when the lower panel goes upward, and will output the strength to the display screen.

### Specification table (tab.1)

Item	Description
Max. Force	2000 kg (20KN)
Load cell	Germany brand load cell for high accuracy
Control system	PC with windows 7 system
Motor	Panasonic servo motor w/ DC variable speed drive system, high-precision mechanical ball screw rod
Force reading	kgf, lbf, N, KN, T etc
Stoke	1100mm including fixture
Load cell Resolution	1/250,000
Load Precision	within $\pm 0.5\%$
Test speed	0.01~500mm/min (adjustable)
Software	TM 2101
Curves display	Load- elongation, Elongation-time, Time-elongation, Stress-strain
Data display	Max. force, speed, sample information, strength(Kpa, Mpa, N/mm, N/mm <sup>2</sup> ) etc...
Safety features	E-Stop Over-load protection Upper and lower limit switches Load sensor with automatic retrea

### Generl Specifications

Packaging Dimensions: (W\*D\*H) 690\*1080\*1790mm

Power supply source: single-phase, 220V $\pm 10\%$ , 50/60Hz (can be appointed)

Gross Weight: 280kg