

TSY-T1L Water Vapour Permeability Tester is applicable in water vapour permeability test of barrier materials such as plastic film and laminated film. Users can control and adjust the technical index of packaging materials by testing the water vapour transmission rate. This equipment is designed and manufactured according to standards GB 1037, ISO 2528, JIS Z0208, ASTM E 96, and ASTM D 1653.



### 1. Characteristics

- . Weight decrease principle, computer controls, high in accuracy, test automatically.
- . High resolution, dispense with manual intervention, test rapidly.
- . High accurate temperature control, easy to realize the test condition.
- . Friendly human-equipment interaction, easy to operate.
- . Test data is displayed continuously, clear at a glance.
- . Function of storage, searching, print, plot, and communication. Sorted search function.
- . High in steady, easy to calibrate.

### 2. Test principle

Saturated water vapour transmits through specimen in a unit time under specified conditions of temperature and humidity. Determine the transmitted mass by test the decreasing weight of distilled water with time going.

### 3. Operation

- . Before test, just input parameters of pre-heating time, test temperature, and so on. Tester will finish the test automatically and prints out test results.
- . Computer can enable the function of sorting store and sorting search. The test results can be displayed in data and curve.
- . Calibrate with standard poise, easy to calibrate.

### 4. Technical data

Test range: 0.1~10,000g/m<sup>2</sup>.24h

Test accuracy: 0.01g/m<sup>2</sup>.24h

Resolution: 0.0001g

Test temperature: room temperature~50 °C

Temperature accuracy: ±0.5 °C

Humidity: 40%Rh~95%RH(standard 90%RH)

Humidity Accuracy: +2%RH

Test area: 63.58cm<sup>2</sup>

Specimen size: φ100mm

Quantity of specimen: 1 pieces

Power: AC 220V 50Hz

Dimension: 690(L) mm x 364(B) mm x 360(H) mm

Net weight: 69kg

### 5. Standard configuration

Mainframe, PC, test cups, software, sample cutter, calibration poise