

TSY-T3

Water Vapour Permeability Tester

TSY-T3 Water Vapour Permeability Tester is applicable for a 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.

Principle

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

Performance characteristics

- Before test, just input parameters of pre-heating time, test temperature and so on. The instrument will finish the test automatically and print out test results.
- WVTR (Water Vapour Permeability Tester) can be calculated for one group or a multi-group of samples. Conditions can vary according to the requirements of the packaging material.
- The upper limit is that 12 different materials are tested at one time, selectable various test conditions.
- Calibrate by standard poise, easy to operate.



Features

- Cup method, high in efficiency.
- 12 test chambers test at same time or test in random groups.
- Satisfies different test conditions, controlled automatically.
- Transmission and weighting are in the same ambient, little errors caused by human operation.
- Highly accurate sensor, data reliable.
- P.I.D. system controls temperature accurately. Little temperature fluctuation.
- Professional software, test data displayed dynamically.
- Database mode storage, easy to analyse.
- Functions of storage, researching, printing, plotting and communication.
- Computer controls automatically, easy to operate.

Physical specifications

Dimensions

826 mm × 720 mm × 670 mm (L x B x H)

Net Weight

152 kg

Standards

GB 1037, ISO 2528, JIS Z0208, ASTM E96, ASTM D1653

Standard configuration

Mainframe, humidity controller, test cups, software, sample cutter, calibration poise.

Technical data

Test range

0.05~10 000g/m²·24h

Quantity of specimen:

1~12 pieces

Test accuracy:

0.01g/m²·24h

Resolution

0.0001g

Test temperature:

Room temperature ~ 50 °C (Standard 38 °C)

Temperature accuracy

± 0.5 °C

Humidity:

Room humidity~96% RH (Standard 90% RH)

Humidity accuracy

± 1% RH

Test area:

33 cm²

Thickness of specimen

≤ 3 mm

Specimen size

Φ 74 mm

Power

AC 220V 50Hz

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