

## W301 Water Vapor Permeability Analyzer



### Application

W301 water vapor permeability analyzer is designed to test the water vapor transmission rate (WVTR) of films or sheets materials with the principle of Gravimetric Method.

#### Applied to:

- 1) Plastic film, composite film, aluminum foil, aluminized film, etc;
- 2) Sheet, panel, rubber, ceramics, etc;
- 3) Packaging containers, such as: glass, bottle, cans, boxes, etc;
- 4) Expanding application: solar panel, LCD film, medical patch, etc.

Widely used in quality inspection organizations, drug control institutions, research institutes, packaging, thin film, food companies, pharmaceutical enterprises, personal care industry, electronics industry and so on.

### Features

#### ➤ Accurate and reliable data

- ◆ With *The State Certificate for Gradation of the certified Reference Materials* and *Licence for Manufacturing Measuring Instruments of the state Reference Materials* (GBW(E)130543/4) of Water Vapor Permeability Analyzer approved and issued by General Administration of Quality Supervision, Inspection and Quarantine of the

P.R.C. Adopting state reference materials to calibrate and verify the instruments, ensure the accuracy, universality and authority of the test data.

➤ **Simple operation**

- ◆ Professional software with simple interface, easy to use and convenient to set test process.
- ◆ Fully-auto operation, one-button test, judge and stop automatically.
- ◆ Curves display of temperature, humidity, weight, permeation in real time. The curves with conceal function, support query function for background data.
  - ◆ Professional test report can be automatically generated and exported in PDF format.

➤ **Advanced technology**

- ◆ Temperature control: International advanced electromagnetic program step temperature control technology, auto heating and cooling; no need of external accessories. Precision: 0.1°C.
- ◆ Using international advanced technologies, the accuracy can reach 0.001 g/m<sup>2</sup> · 24h.

**High efficiency**

- ◆ **One independent test chambers:** with fast test efficiency.
- ◆ High precision sensor, continuous weighing and collecting data. Test data is accurate and reliable.
- ◆ Add additional adapting piece, being able to test bag, bottle, bowl, and other packaging containers.
- ◆ Which can test aluminum foil, laminated films and other high barriers materials in the industry.

➤ **Authority management & data trace**

- ◆ The software is designed according to the requirements of the new GMP Appendix computerized system.

- ◆ Need a user name and password to log in to the workstation, and ensure the safety and effectiveness of account and experiment data.
- ◆ Users can be classified into different levels of system administrator, instrument administrator, auditor and operator.
- ◆ The system administrator can adjust the permissions of various levels, for example, increase and decrease system control items of any level.
- ◆ Have audit and trace functions (test tracking, log tracking), every data change is recorded, ensure the security and integrity of test data.



➤ **Reliable and easy-maintenance instrument**

- ◆ Sensor over-range automatic protection, prevent damaging important sensors while instrument failure.
- ◆ Functional modular design, easy to maintain.

**Standard**

GB/T 1037-1988、GB/T 16928-1997、ASTM E96/E96M-2016、ASTM D1653-2013、TAPPI T464、ISO 2528-1995、DIN53122-1、JIS Z0208-1976、YBB00092003-2015

Specification	
<b>Test range</b>	0.1~10000 g/(m <sup>2</sup> ·24h)
<b>Test precision</b>	0.001 g/(m <sup>2</sup> ·24h)
<b>Temperature range</b>	15~55℃
<b>Temperature accuracy</b>	±0.1℃
<b>Humidity range</b>	dry method: ≤10%RH
<b>Humidity accuracy</b>	±1%RH
<b>Test area</b>	50.24 cm <sup>2</sup>
<b>Sample size</b>	Φ90 mm
<b>Sample thickness</b>	≤3mm
<b>Number of test sample</b>	1 piece
<b>Power</b>	450W
<b>Power supply</b>	AC 220V, 50Hz

Note: GBPI is always committed to product innovation and improved performance, so accordingly product technical specifications are subject to change without notice. GBPI reserves the right to amend and the final power of interpretation.