

W401 2.0 Water Vapor Permeability Analyzer



1. Product Introduction

Based on the testing principle of the infrared sensor, W401 is designed and manufactured with reference to the standard of GB/T 26253. It is used to test the water vapor transmission rate of film or sheet materials.

- Applied to:
- 1) Plastic film, composite film, aluminum foil, aluminized film, etc;
 - 2) Sheet, panel, rubber, ceramics, etc;
 - 3) Packaging containers, such as: bottle, pouch, bowl, 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.

2. Features

1) 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.

2) Simple operation

- ◆ Professional software with simple interface, easy to use and flexible to set test process.
- ◆ Fully-auto operation, one-button test, judge and stop automatically.
- ◆ Real time curves display of temperature, humidity, transmission, flow and Voltage. The curves with conceal function, support query function for background data.
- ◆ Mainframe configure with color touch screen, can observe temperature, humidity and transmission without external computer in real time.
- ◆ The sample is compressed by pneumatic clamp, which is quick and convenient to operate.
- ◆ Professional test report; files can be exported in PDF.

3) Advanced technology

- ◆ Temperature control: International advanced electromagnetic technology, program controlled, auto heating and cooling; no need of external accessories. Precision: 0.1°C.
- ◆ Humidity control: Dual gas flow method(dry gas and humid gas), high precision (1%RH) and stable flow.

- ◆ Provide electronic signature function, online report submission and review functions.

4) High efficiency

- ◆ Single test chamber, fast data test.
- ◆ Measurement precise up to 0.001 g/m²·24h, can test high barrier materials, such as aluminum foil.

5) Authority management and data tracking

- ◆ The software is designed according to the requirements of the computerized system of the new GMP appendix.
- ◆ Require user name and password to log in to the workstation. Ensure that the account and experimental data are safe and effective.
- ◆ Users are divided into various levels such as operator and administrator, observer, etc.
- ◆ Administrators can adjust permissions at various levels; for example, increase and decrease system control items at a certain level.
- ◆ With audit trail function (system audit trail, project operation audit trail), every data change is recorded; the safety and integrity of test data is guaranteed.

6) Reliable and easy-maintenance instrument

- ◆ Our infrared sensor, with high precise and good performance, can work for a long time.
- ◆ Sensor over-range protection, prevent damaging important sensors.
- ◆ Functional modular design, easy to maintain.

3. Standard:

ASTM F1249-2013, BS EN ISO 15106-2-2005, GB/T 26253-2010,

YBB 00092003-2015, JIS K7129-2008.

4. Specification

Items	Technical Parameters
Test range	0.002~100 g/(m ² ·24h)
Resolution	0.005 g/(m ² ·24h)
Temperature range	15~45°C
Temperature accuracy	±0.1°C
Humidity range	30~90%RH, 100%RH
Humidity accuracy	±1%RH
Test area	50.24 cm ²
Sample size	Φ100 mm
Sample thickness	≤3mm
Number of test	1piece
Carrier gas	99.999% N ₂ (user provide)
Carrier gas pressure	≥0.1MPa
Carrier gas flow	5~100 mL/min
Carrier gas pressure	≥0.3MPa
Power	450W
Power supply	AC 220V, 50Hz

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Guangzhou Biaoji Packaging Equipment Co., Ltd.

Address: No.1 Minghua 3 Street, Jinxiu Road, Economic Development Zone, Guangzhou

Tel: 020 -86103790

After-sale hotline: 400-788-6855

Email: gbpisales8@gbtest.cn

Fax: 020 – 82087405 Web: <https://www.gbpitester.com/>



Representantes / Distribuidores Exclusivos

 Argentina

Tel: (+54 11) 5352 2500

Email: info@dastecsrl.com.ar

Web: www.dastecsrl.com.ar



No.1 Minghua 3 Street, Jinxiu Road, Economic Development Zone, Guangzhou 510730, China

Tel: 020-82222550 Fax: 020-82087405 (T)