

WPT-301B Water Vapor Transmission Rate Tester

WPT-301B Water Vapor Transmission Rate Tester

is for the water vapor transmission rate measurement of plastic films, laminated films, sheets as well as various materials used in medical and construction industries. Through water vapor transmission rate testing, the demands for control and adjust technical indexes and satisfy



Characteristics

Weighing method test principle, intermittent weighing that meets the requirements of the standard, the system is automatically cleared before each measurement to ensure the unity and accuracy of the data

High-definition LCD touch screen, the content is more intuitive and the operation is easier

☐ One sample is tested in a single test, the process is fully automated, the lifting and weighing of the breathable cup is controlled by a cylinder, and the data is accurate and reliable

Innovative circulating dehumidification system, built-in vacuum pump, effectively preventing the formation of humidity gradient above the moisture permeable cup, ensuring the accuracy of the test

Wide range, high precision, automatic temperature and humidity control, to meet the test under various test conditions

Test results support multi-format storage and data output, including test report Excel, cloud sharing

Provide fast calibration mode of standard weights, weighing system to ensure the accuracy of test data

The product complies with GMP user level three authority

Perform single and group statistical analysis of test results

With ISP online control and upgrade functions, the test function can be changed remotely as required

Special computer communication software, real-time display of test, data analysis and processing, data storage

Principle

A specific humidity difference is formed among the two sides of the specimen under a certain temperature. The water vapor permeates through the specimen and into the dry side. By measuring the weight changes of the cup, water vapor transmission rate and other parameters can be obtained.

Standards:

ASTM E96, ASTM D1653, TAPPI T464, ISO 2528, DIN 53122-1, JIS Z0208, GB 1037, GB/T 16928, YBB 00092003

Technical Indexes

Test Range: 0.1 ~ 10,000 g/m²•24h (Routine)

Accuracy : 0.01 g/m²•24h

Test Temperature: 15°C ~ 65°C (Routine)

Temperature Accuracy: ±0.5°C

Test Humidity: 10% RH ~ 98% RH(Standard 90% RH)

Humidity Accuracy : ±1%RH

Purge Velocity: 0.5 ~ 2.5 m/s (Note: non-standard purge velocity can be customized.)

Test Area: 33 cm²

Numbers of Specimen: 1 Pieces

Specimen Thickness: ≤3mm (Note: demands for other thicknesses can be customized.)

Specimen Size: φ74 mm

Dimensions: 440mm (L)×450mm (B)×450mm(H)

Power: AC 220V 50Hz

Configuration:

Standard: Mainframe, software, cup, gas dry device, automotive dry filter, calibration weight, communication cable, sample cutter, gas supply valve

Optional: reference film, air compressor, desiccant.

Note: The gas inlet is Φ6mm polyurethane pipe.

Users provide gas source and distilled water for themselves.