WVTR-C3

Water Vapor Permeability Tester

Application

WVTR-C3 is based on the weighing method and available for the water vapor permeability test of plastic films, aluminum foil, aluminized films, plastic composite films and many others.

Features

- Weighing method
- Own technology
- 3 specimens, continuously test
- One-button test, test automatically in whole process
- Multiple test modes optional
- Temperature and humidity auto control
- Data curves display
- Computer control
- Environment temperature and humidity sensor inside
- Unit based on embedded system,24bit Δ-Σ AD
- Traceable reference film calibration
- Supports DSM system (DSM, lab data management system)

Principles

Test dishes filled with distilled water in a controlled dry atmosphere, a constant humidity difference is generated between two sides of the test specimen, the water vapor permeates through the specimen and into the dry side, water vapor transmission rate and other parameters can be obtained by measuring the weight changes of the test dish in different time.

Technical indexes

Test range：0.1~19,000 g/m^2·24h (standard)

Test accuracy: 0.01 g/m^2·24h

Specimen amount: 3 specimens, independent

Temperature range: 15C–60C

Temperature accuracy: ±0.1C

Differential humidity range: Room-95%RH,standard condition 90%RH

Humidity accuracy: ±1%RH

Test area: 28.26cm^2

Specimen size: Φ76mm

Air velocity: 0.5~2.5m/s (customization available)

Test chamber volume: 36L

Gas supply: Air

Gas interface: Φ8

Power supply: AC 220V 50Hz

Dimension: 650 mm(L) * 550 mm(W) *475(H)mm

Net weight: 67kg

Standard

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

Configuration

Standard configuration: Mainframe, computer, W-CTrans software, test dishes(3), desiccant tube, pressure regulator, automatic moisture filter, calibration weight, communication cable, sample cutter.

Optional: Reference film, air drying device, sample cutter, DSM system.

Note: Specifications are subject to change without prior notice.