

GTR-7001 Gas Permeability Tester



Application

GTR-7001 is based on the differential pressure method, and is professionally applicable to the determination of gas transmission rate as well as solubility coefficient, diffusion coefficient and permeability coefficient of plastic films, laminated films, high barrier materials, sheeting, metal foils, rubber, tires and permeable membranes.

Features

- Vacuum differential pressure method
- Patent technology
- 3 specimens test simultaneously and independently
- Computer control
- One-button test, test automatically through whole process
- High accuracy vacuum sensors embedded in
- 3 Chambers with independent temperature sensor
- Test under various RH conditions with Humidity generator (optional)
- Environment temperature and humidity sensor inside
- Permeability coefficient ,solubility coefficient and diffusion coefficient test
- Chambers with water bath temperature control technology
- Unit based on embedded system, 24bit Δ - Σ AD
- Multiple test modes optional

- Data curves display
- Traceable reference film calibration
- Supports DSM system (DSM, lab data management system)

Technical Indexes

Test range: 0.01 - 190,000 cm³/m²·24h·0.1MPa (Standard)

Resolution: 0.001cm³/m²·24h·0.1MPa

Samples: 3, independent

Vacuum accuracy: 0.1Pa

Temperature range: 5C - 95C

Temperature accuracy: ±0.1C

Humidity range: 0%RH,35%RH-90%RH,100%RH (optional)

Humidity accuracy: ±1%RH (optional)

Sample thickness: less 5mm

Sample size: ≥ 150mm * 94mm

Test area: 48cm²

Test gas: O₂, N₂, CO₂, He, etc

Differential pressure: -0.1MPa - 0.1MPa

Gas interface: Φ8mm

Dimension: 730mm * 510mm * 350mm

Power supply: AC 220V 50Hz

Net wt. : 63kg

Standards

ASTM D1434, ISO 15105-1,ISO 2556,GB/T 1038-2000,JIS 7126-1,YBB 00082003

Configuration

Delivery: Main unit, computer, G-TRANS software, Temperature controller, vacuum pump(BOC Edwards), tank regulator, PCIE card, communication cable, sample cutter, vacuum grease.

Optional: Humidity generator, Reference film, vacuum grease, sample cutter, DSM system.

Note: Specifications are subject to change without prior notice.