

GTR-7002 Gas Permeability Tester



Application

GTR-7002 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 with one aver result
- Computer control
- One-button test, test automatically through whole process
- High accuracy vacuum sensors embedded in
- 3 Chambers with independent temperature sensors
- Environment temperature and humidity sensor inside
- Permeability coefficient ,solubility coefficient and diffusion coefficient test
- Chambers with water bath temperature control technology (optional)
- Unit based on embedded system,24bit $\Delta-\Sigma$ 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 - 100,000 cm³/m²·24h·0.1MPa (Standard)

Resolution: 0.001cm³/m²·24h·0.1MPa

Samples: 3 (3 specimens with same material, average test)

Vacuum accuracy : 0.1 Pa

Temperature range: 5C - 95C

Temperature accuracy: ±0.1C

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: 730 mm * 510mm * 350mm

Power supply: AC 220V 50Hz

Net wt. : 60kg

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, vacuum pump, tank regulator, PCIE card, communication cable, sample cutter, vacuum grease.

Optional: Temperature controller, reference film, vacuum grease, sample cutter, DSM system.

Note: Specifications are subject to change without prior notice.