

GTR 721 Gas Permeability Tester



Application

GTR 721 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
- Built in embedded system with 24bit Δ - Σ AD, remote maintenance and upgrade
- One-Click start a test and test automatically stop, no any manual operation is required during the process until the end of the test
- Do NOT need to preset any test parameters before a test, zero operation experience requirements, proprietary technology
- 3 specimens test simultaneously and independently
- According to the test state, the vacuum pump starts and stops automatically, do NOT need manual operation
- Computer control, multiple test modes: Increment, proportional and intelligent
- The temperatures of chambers which hollow inside and with circulating water are stable, high precision and wide range, 3 chambers with independent temperature sensors to monitor

- Test under various RH conditions with Humidity generator (optional)
- Built in environment temperature and humidity sensor
- Permeability coefficient ,solubility coefficient and diffusion coefficient test
- Various curves display: chambers temperature, test pressure, transmission rates, etc
- Traceable reference film calibration
- Supports DSM system (DSM, lab data management system)

Technical Indexes

Test range: 0.05 - 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 3mm

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(L) * 510mm(W) * 350mm(H)

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

Standard: Main Unit, Computer, G-TRANS Software, Temperature Controller, Vacuum Pump, Vacuum Pump Control Model, 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.