

PERME[®] OR2/410 Organic Gas Transmission Rate Test System

OR2/410 is professionally applicable to the quantitative determination of organic gas transmission rate of films, composite films, sheeting, and packages. The instrument could assess and control the lasting fragrance performance of packages for aromatic products, e.g. food, drinks, cigarettes, tea and cosmetics.



Professional

- The instrument is based on the combination of equal-pressure method and chromatography analysis technology, and is used to test organic gas transmission rate of films, sheeting and finished package containers.
- The system utilizes professional technology of anti-condensation and high temperature drying to ensure the accuracy of test data
- Gas chromatograph is equipped with auto-sampling system and multi-level temperature program to meet professional test requirements
- The system is controlled by a computer and the test process is automatic
- Reference film for fast calibration to ensure the accurate and universal test data
- Equipped with RS232 port for convenient data transfer
- Support Lystem[™] Lab Data Sharing System for uniform management of test results and test reports

Applications

This instrument is applicable to the determination of organic gas transmission rate of:

Basic Applications	Films	Including plastic films, plastic composite films, paper-plastic composite films, geomembranes, coextruded films, aluminized films, aluminum foil, aluminum composite films, and many others
	Packages	Including plastics, rubber, paper, paper-plastic composite, glass, and metal packages, e.g. Coke bottles, Tetra Pak materials, vacuum bags, metal three-piece cans, soft tube packages for plastic cosmetic and toothpaste, and jelly cups

Technical Specifications

Items	Specifications
Test Range	0.01~40 g/m ² ·d·100ppm (standard)
Testable Organic Gases	Organics (e.g. Benzene, ester, alcohols, aldehydes, ketones and ether)
Gas Flow	10~40 ml/min
Gas Concentration	10 ppm~150 ppm

Temperature Accuracy	±0.1℃
Carrier Gas for Lower Chamber	More than 99.999% high purity nitrogen(not in supply scope)
Gas Flow	2 ~ 10 ml/min
Port Size	1/8 inch PVDF tubing
Carrier Gas For Gas Chromatograph	More than 99.999% high purity nitrogen(not in supply scope)
Port Size	Φ3 mm PTFE tubing
Hydrogen Gas	More than 99.999% high purity hydrogen (not in supply scope)
Port Size	Φ3 mm PTFE tubing
Air	Dry and oil free
Port Size	Φ3 mm PTFE tubing

Configurations

Standard Configurations	Including Instrument, Detector, Chromatography Data System, Constant Temperature Control Device, and Round Sample Cutter
Note	1. The gas supply ports of the instrument are 1/8 inch PVDF tubing and Φ3 mm PTFE tubing; 2. Customers will need to prepare for gas supply and distilled water.

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