

Oxygen Transmission Rate Tester for Packaging Materials

The oxygen transmission rate tester measures the amount of oxygen gas that permeates through packaging materials. It determines the oxygen transmission rate (OTR) value of high barrier materials, sheets, and compound materials.



ADDITIONAL IMAGES



Overview

High-Precision Oxygen Permeation Testing

The Y201D Oxygen Transmission Rate Tester is a precision laboratory instrument designed to measure the oxygen permeation rate (OTR) of high-barrier materials, flexible packaging, and rigid containers. Utilizing advanced coulometry theory, it ensures accurate quality control for critical industries such as food, pharmaceuticals, and cosmetics. This versatile tester supports a wide array of materials, including films, sheets, solar boards, and various container types, providing essential data for shelf-life assessment.

Technical Standards

Compliance Standards

GB/T 19789-2005, ASTM D 3985-1995, ASTM F 1927-1998, ASTM F 1307-1990, YBB00082003, ISO 15105-2003, DIN 53380-3-1998, JIS K-7126

Performance Metrics

OTR Measurement Units

- cm³ / (m²·24h)
- ppm

Applications

Target Industries

Food Industry • Pharmaceutical • Cosmetics • Flexible Packaging • Academic Research • Quality Control

Testable Materials

- High barrier materials
- Sheets
- Solar boards
- Compound materials
- PVC
- Rubber
- Paper
- Glass
- Metal
- Bottles
- Blood bags