Y310 2.0 Oxygen Permeability Analyzer

Introduction

The Y310 2.0 OTR tester is designed based on ASTM D3985 standard Coulomb oxygen sensor method. It's used to test the oxygen transmission rate of film or sheet materials.

Apply for:

1) Plastic film, composite film, aluminum foil, metalized film, etc.;

2) Plastic sheets, plates, rubber, ceramics, etc.;

3) Packaging containers, such as bottles, bags, bowls, etc.(with customized test fixture);

4) Expand applications, such as solar panel, LCD films, medical patch.

Widely used in quality inspection organizations, drug control institutions, research institutes, packaging, thin film, food companies, pharmaceutical enterprises, personal care industry, electronics industry and so on.

Standard: ASTM D3985, ASTM F2622, ASTM F1927, ASTM F1037, ISO15105-2, JIS K-7126-B, DIN 53380-3

Features

1) Accurate and reliable data

◆ Our company has obtained The State Certificate For Gradation of the Certified Reference Materials (Serial No.: GBW (E)130497/130498)of oxygen transmission rate. The certificate is approved and issued by General Administration of Quality Supervision, Inspection and Quarantine of the P.R.C. We use self developed state reference material to calibrate the OTR tester to ensure the accuracy, universality and authority of the test data.

2) Simple operation

◆ Professional software with simple interface, easy to use and flexible to set test process.

◆ Fully automatic operation, one-button test, judge and stop automatically.

◆ Real time curves to display temperature-time, humidity-time, transmission-time, Nitrogen flow -time, Oxygen flow -time and concentration-time. The curves could be previewed and concealed.

◆ The tester is equipped with a built-in color touch screen in 11.6", no external computer is needed.

◆ Pneumatic sample clamp, which is quick and convenient to operate.

◆ Professional test report can be automatically generated and exported in PDF format.

3) Advanced technology

◆ Temperature control: Semiconductor chilling plate to control temperature automatically, auto heating and cooling; precision up to ±0.1℃.

◆ Humidity control: Dual gas flow method(dry gas and humid gas), high precision (±1%RH) and stable flow.

◆ With functions of electronic signature, online report submission and review.

◆ With operating system, it could run independently and also could connect to computer for operation.
◆ It could connect to the IoT platform to realize digital network management which could remote diagnosis and solve problems, manage test data etc. Customers could download documents, videos on the platform..

4)Authority management and data tracking

◆ The software is designed according to the requirements of the computerized system of the new GMP appendix.

◆ User name and password are required to log in the workstation to ensure the safety and effectiveness of account and experiment data.

◆ Users can be classified into different levels of system administrator, instrument administrator, auditor and operator.

◆ The system administrator can adjust the permissions of various levels, for example, increase and decrease control items of any level.

◆ With audit track function, every data change is recorded; make sure test data safe and complete.

5)Stable, reliable and easy to maintain

◆ Imported oxygen sensor with high precision and stability.
◆ Over-range automatic protection for the sensor could prevent damaging important sensors while instrument has failures.
◆ Functional modular design, easy to maintain.

Specification

Items	Technical Parameters
Test range	0.01~1000cm3/(m2·24h·0.1MPa) with fixture to 260000cm3/(m2·24h·0.1MPa)
Resolution	0.0001 cm3/(m2·24h·0.1MPa)
Temperature range	15～45℃
Temperature precision	±0.1℃
Humidity range	0%RH, 30～90%RH, 100%RH
Humidity precision	±1%
Test area	50.24 cm2
Sample size	Φ100 mm
Sample thickness	≤3mm
Sample quantity	3pcs
Carrier gas	99.999% nitrogen (provided by the user)
Carrier gas pressure	≥0.1MPa
Carrier gas flow	5~100 mL/min
Pneumatic pressure	≥0.3MPa
Size and weight	700*655*390mm, 60kg
Power	750W
Power supply	AC 220V, 50Hz