TOY-C3 Film&Package Oxygen Permeability Tester

TOY-C3 flm & package oxygen permeability tester is designed and manufactured according to ASTM F1307, ASTM D 3985, ASTM F 1927, JIS K 7126, ISO15105-2 and so on, it is applicable in oxygen permeability test of plastic films and finished packages (such as plastic bottles and plastic pouches) in air or in 100% oxygen.

Characteristics

Compatible with GB, ISO, ASTM and various oxygen transmission rate testing standards.

Coulometric principle, equal pressure testing method that is more like actual production.

Independent 6 testing chambers, can test 6 different samples at the same time, higher efficiency .

Employ high accurate sensor analysis technique, test is precise and fast.

Double testing modes of film and container, with standard accessories, and easy to replace .

Temperature and humidity are controlled automatically in wide range .

Professional software, clear testing procedure.

Powerful software, multiple testing modes, flexible testing method, one-click operation, high automatic.

The record, search, comparison, and original data ‘s analysis are easy and fast, full procedure is clear .

World-wide excellent elements, stable and reliable running .

Continuously running when power off, free from the interference of power off.

With network port, supports TCP/IP, data could be shared in the local area network and the internet.

Principle

High pure oxygen flows on one side of the film, high pure nitrogen flows on the other side of the film. Oxygen molecule passes the film into the nitrogen of another side, and is taken to the sensor by the flowing nitrogen. Test the transmission of oxygen by analyzing the concentration of oxygen detected by sensor. As for packaging container, nitrogen flows in the container, air or high pure oxygen covers the outside of the container

Technical Data

1.Film test

Test range: 0.007~6500 ml/m^2•day(normal)

0.07~65000 ml/m^2•day (optional)

Resolution: 0.001 ml/m^2•day

Temp. control range: 5ºC~95ºC

Temp. control accuracy:±0.1ºC

Humidity control range: 0%RH;15%RH~90%RH

Humidity control accuracy:±2%RH

No. of specimens: 6 pieces（independent）

Specimen size: Φ97mm, thickness<1mm(thicker specimen needs accessories)

Test area: 38.48cm^2

Test condition:ambient condition

Office: Jl. Radin Inten II No. 62 Duren Sawit, Jakarta 13440 - Indonesia
Workshop: Jl. Pahlawan Revolusi No. 22B, Jakarta 13430 - Indonesia
Phone: 021-8690 6777 (Hunting)
Mobile: +62 816 1740 8925
Fax: 021-8690 6771

(standard condition:23 ºC)

Dimension:1290mm(L)×630mm(B)×400mm(H)

Power: AC 220V 50Hz/60Hz

Net weight: 150kg

2.Package test

Test range: 0.00008~60 ml/pkg•day

Resolution: 0.00001 ml/pkg•day

Temp. control range:5º C~95º C℃

Temp. control accuracy:±0.1º C

Humidity control range: 0%RH，15%RH~90%RH.

Humidity control accuracy:±2%RH

No. of specimens: 6 pieces (independent)

Bottle body:100% O_2 test: less than Φ90mm, height is less than 280mm; in air: no size limit.

Bottleneck: diameter of inner bottleneck＞Φ9mm,

diameter of puter bottleneck<Φ50mm(normal)

Pouches and boxes need accessories

Test condition:ambient condition

(standard condition:23 ºC)

Dimension: 1290mm(L)×630mm(B)×400mm(H)

Power: AC 220V 50Hz/60Hz

Net weight: 150kg

Standards

ISO 15105-2, ASTM D3985, ASTM F1307, ASTM F1927, JIS K7126-B, GB/T 19789, YBB 00082003

Configuration

Standard: mainframe, temperature controller, bottle accessories, software, cable.

Optional: seal accessories.

Note: Users provide testing gas themselves.

It is better to use server instead of the common computer.