

Gas Permeability Analyzer N500 2.0



Application

Based on the test principle of the differential pressure method, N530 is designed with reference to the GB/T 1038 standard and used to test the gas transmission rate (quantity) of film or sheet materials.

Applied to;

- 1) Plastic film, composite film, aluminum foil, aluminized film, etc.;
- 2) Various sheets, plates, rubber, ceramics, etc.;
- 3) Packaging containers, such as bottles, bags, bowls, etc.;
- 4) Others applications, such as solar backplanes, liquid crystal display films, medical patches, etc.

Used in quality inspection, drug inspection, scientific research, packaging, film, food, medicine, daily chemical products, electronic and other industries.

Features

1) Accurate and reliable data

- ◆ Our company has approved and issued by the "General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China". Gas Permeability Tester "National Standard Material Classification Certificate" and "National Standard Material" Manufacturing Measuring Instruments License (GBW(E)130541/ 2). Use national standard materials to calibrate and verify the instrument to ensure the accuracy, versatility and authority of the test data.

2) Easy to operate

- ◆ Professional software with simple interface, easy to use and flexibly to set test process.
- ◆ Fully automatic operation, judge and stop automatically.
- ◆ Five sets of curves of temperature, upper cavity pressure, lower cavity pressure, pressure difference change, and penetration are displayed in real time. The curves with conceal function, support query function for background data.
- ◆ Professional test report, automatically generate and can be exported in PDF format.

3) Advanced technology

- ◆ Automatic pressure maintaining technology, which automatically maintains the pressure difference on both sides of the sample (the pressure difference can be adjusted arbitrarily).
- ◆ Temperature control: water-cooled temperature control technology, automatic heating and cooling. No needing external temperature control device to avoid the disadvantages of large size and multiple failures. High measurement accuracy, accurate to 0.1°C.

4) High test efficiency

- ◆ Single test cavity, fast data test rate.
- ◆ Adapt to film testing with different barrier properties.
- ◆ Measurement precision up to $0.01 \text{ cm}^3/(\text{m}^2 \cdot 24\text{h} \cdot 0.1\text{MPa})$, can test high barrier materials, such as aluminum foil.
- ◆ By adding package-testing accessories, can test the gas permeability of bottles, bags, bowls and other containers.

5) Authority management and data tracking

- ◆ The software is designed according to the requirements of the computerized system in the new GMP appendix.
- ◆ Needing user name and password to log in.
- ◆ Users are divided into multiple levels of system administrators, instrument administrators, auditors, and operators.
- ◆ The system administrator can adjust the authority of various levels; like increase and decrease the system control items of a certain level.
- ◆ With audit trail function (test trail, log trail), every data change is recorded to ensure the safety and integrity.

6) Stable, reliable and easy to maintain

- ◆ Professional pressure sensor with high precision, good stability, can run for a long time.
- ◆ The sensor has an automatic protection function that exceeds the range to avoid damage to important sensors when the instrument fails.
- ◆ Functional Modular design, easy to maintain.

Standard

GB/T 1038-2000, ISO 2556-1974, ISO 15105-1-2007, ASTM D1434, JIS
K7126-1-2006, YBB00082003-2015

Specification

Items	Technical Parameters
Testing range	0.02~50000 cm ³ / (m ² • 24h • 0.1MPa)
Testing accuracy	0.001 cm ³ / (m ² • 24h • 0.1MPa)
Testing temperature range	15~60°C
Temperature precision	±0.1°C
Vacuum degree	<20Pa
Vacuum resolution	0.01Pa
Test pressure	0.1MPa
Test gas	O ₂ , CO ₂ , N ₂ , etc
Through area	50.24 cm ²
Sample size	Φ110 mm
Sample thickness	≤2mm
Number of samples	1 pc
Power	450W
Power supply	AC 220V, 50Hz