

Y110 Oxygen Permeability Analyzer



Features

- Adopts international advanced electromagnetic temperature control technology can control temperature rising and lowering without any external accessory. Temperature control accuracy reach 0.01°C
- The humidity control adopts double air humidity control method, humidity control area is large and with high accuracy.
- It has two calibration methods :standard gas calibration and standard film calibration.
- LCD and windows instrument interface show testing data and working status in real time.
- Judge and stop automatically.
- With leakage auto protection function.
- The software operation is easy, all testing program is automatic. It records the curves automatically of the permeation rate, oxygen concentration, humidity and temperature. Continuous display. Can monitor the mutual influence between the parameters.
- Can test high permeability films (such as contact lenses) with additional testing fixture.
- Can test the oxygen permeability of packaging bags or bottles with special fixture



Function

Y110 is applicable for testing the oxygen transmission property of plastic film, sheet and plastic bottles and bags in air or pure oxygen.



Standards

ASTM D 3985

ASTM F 1927

ASTM F 1307

ISO 15105-2

YBB00082003

GB/T 19789-2005

DIN 53380-3

JIS K-7126-B



Technical Specification

Items	Technical Parameters
Test Range	0.02~16,500 cm ³ /m ² /day (with special mask, the max testing range can reach 260000cm ³ /m ² /day)
Test Accuracy	0.001 cm ³ / (m ² · 24h)
Temperature Control Range	15°C~45°C (5~55°C optional)
Temperature Accuracy	±0.1°C
Humidity Range	0%RH, 30~90%RH, 100%RH
Humidity Accuracy	±2%RH
Specimen Size	Φ100mm
Test Area	50.24cm ²
Specimen Thickness	≤2mm
Numbers of Specimen	1 piece
Inlet Size	1/8 metal pipe
Pressure	0.1~0.2MPa
Testing environment	ambient temperature (Standard conditions 23°C)



Software Interface



Configuration

Main machine body, software, communication cable, Φ100 sample cutter, 1/8 inch copper tube, sealing grease, clip connector, water injector, spanner, standard test plate



Users owned

User provide: nitrogen (99.999%), oxygen (99.999%), pressure releasing valve, computer
Optional (for purchase): test accessories, standard film, sealing grease, special clips, pressure releasing valve, computer