

BTY-B2P is based on the differential pressure method, and is professionally applicable to the determination of gas permeability of battery diaphragms, breathable films and other relative polymer products.



### Professional Technology

- 3 equivalent specimens can be tested simultaneously with the average value as test result
- The system supports unit conversion function to meet user's requirements for special test
- The instrument is controlled by computer with automatic test process
- Two test modes of proportional and standard modes are available
- Customization of test functions is available for special test materials
- Equipped with RS232 port for convenient data transfer
- Supports Lystem<sup>™</sup> Lab Data Sharing System for uniform and systematic management of test results and test reports

### Test Principle

Under certain temperature and humidity, a constant gas differential pressure is generated between the two sides of specimen. The gas transmission rate and other parameters can be obtained by analyzing and calculating pressure changes in the lower pressure side.

This test instrument conforms to the following standards:  
ISO 5636, SJT 1071.9

### Applications

This instrument is applicable to the determination of gas permeability of:

<b>Basic Applications</b>	Test the gas permeability of battery diaphragms, breathable films and other relative polymer products.
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### Technical Specifications

Specifications	Film Test
<b>Test Range</b>	10 ~ 10,000 s/in <sup>2</sup> ·100 mL·1.22KPa
<b>Pressure Range</b>	0~20 KPa (customization is available for others)
<b>Resolution</b>	0.1 Pa
<b>Specimen Size</b>	Φ12 mm
<b>Test Area</b>	0.025 sq.in. (0.16 cm <sup>2</sup> )
<b>Number of Specimens</b>	3, 2 or 1

<b>Test Gas</b>	O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> and 99.9% dry gas (outside of supply scope)
<b>Gas Supply Pressure</b>	0.4 MPa ~ 0.6 MPa
<b>Port Size</b>	Φ4 mm PU Tubing
<b>Power Supply</b>	220VAC 50Hz / 120VAC 60Hz
<b>Instrument Dimension</b>	645 mm (L) x 500 mm (W) x 468 mm (H)
<b>Net Weight</b>	60 kg

## Configurations

<b>Standard Configurations</b>	Instrument, Professional Software, Fast Quantitative Filter Paper, Sampling Plate and Vacuum Grease
<b>Optional Parts</b>	Vacuum Grease
<b>Note</b>	1. The gas supply port of the instrument is Φ4 mm PU tubing; 2. Customers will need to prepare for gas supply.

**Please Note:** Labthink is always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice. Please visit our website at [www.labthink.com](http://www.labthink.com) for the latest updates. Labthink reserves the rights of final interpretation and revision.