PARAM[®] CLASSIC 513 Gradient Heat Seal Tester

Labthink®

CLASSIC 513 Gradient Heat Seal Tester is professionally designed for the determination of heatsealability of plastic films, composite films, coated paper, and other sealing films under certain sealing speed, pressure and 5 different temperatures. The heatsealability of heat sealing materials would be greatly affected by the factors of melting point, thermal stability, fluidity and thickness. The optimal heatsealability parameters can be obtained accurately and efficiently through this instrument.



Professional Technology

- P.I.D. temperature control technology ensures preset temperature to be reached rapidly without any fluctuation.
- Wide range control of temperature, pressure and time can meet various test conditions.
- Manual or pedal switch control, as well as anti-scald design provides convenient and safe operating environment.
- The instrument is controlled by micro-computer with LCD, PVC operation panel, and menu-interface, which is convenient for customers.
- The instrument can test 5 groups of 2 specimens at a time simultaneously, and accurately and efficiently obtain heatsealability parameters of the tested specimens.
- 5 upper sealing jaws are individually controlled by 5 gas cylinders which ensure the stability of heat sealing process.
- The heating tube joints can be easily installed or removed for rapid replacement.
- Independent temperature control of upper and lower sealing jaws allows multiple combinations of test conditions.
- Equipped with micro-printer for convenient data saving, exporting and printing.

Test Standard

This test instrument conforms to the following standards:

ASTM F2029Note1, QB/T 2358, YBB 00122003

Note1: The 10 sealing jaws are all heated sealing jaws as required by ASTM F2029. If necessary, the lower sealing jaws can be replaced with unheated sealing jaws.

Applications

| Basic | Films with Smooth | Including plastic films, plastic composite films, paper-plastic |
|--------------|-------------------|--|
| Applications | Surface | composite films, coextruded films, aluminized films, aluminum foils, |

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| | | aluminum foil composite films and many others. Heat sealing surface should be smooth and width can be designed based on user requirements. Instrument could simultaneously perform sealing operations at 5 different temperatures. |
| | Films with Decorative Pattern Surface | Including plastic films, plastic composite films, paper-plastic composite films, coextruded films, aluminized films, aluminum foils, aluminum foil composite films and many others. Heat sealing surface can be designed based on user requirements. Instrument could simultaneously perform sealing operations at 5 different temperatures. |
| Extended Applications | Covers of Jelly Cups | The instrument is composed of the upper and lower jaws. The upper one is round-shape, while the lower one is designed as a specimen mold whose size exactly fits jelly cup. Put the jelly cup in the mold of lower jaw, and sealing operation can be finished by upper jaw pushing. (Customized parts are required) |
| | Plastic Flexible Tubes | The end of plastic flexible tubes is placed in between upper and lower jaws and then sealed to form a package. |

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Technical Specifications

| Specifications | CLASSIC 513 |
|------------------------|---|
| Sealing Temperature | Room temperature ~ 250°C |
| Sealing Pressure | 0.1 MPa ~ 0.7 MPa |
| Dwell Time | 0.5 ~ 999.9 s |
| Temperature Accuracy | ±2°C |
| Temperature Resolution | 0.1°C |
| Temperature Gradient | ≤20°C |
| Gas Supply Pressure | 0. 7MPa ~ 0.8 MPa (outside of supply scope) |
| Port Size | $\Phi 8 \text{ mm PU Tubing}$ |
| Sealing Area | 40 mm x 10 mm |
| Number of Sealing Jaws | 10 (2 x 5 groups) Note2 |
| Instrument Dimension | 576 mm (L) x 430 mm (W) x 510 mm (H) |
| Power Supply | 220VAC 50Hz / 120VAC 60Hz |
| Net Weight | 72 kg |

Note2: There are five upper sealing jaws and five lower sealing jaws for heat seal test. The temperature of all the sealing jaws can be controlled independently. All of the sealing jaws are heated sealing jaws. The unheated sealing jaws can be selected as lower sealing jaws.

Configurations

| Standard Configurations | Instrument, Pedal Switch, Micro-printer |
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Optional Parts Software, Co

Software, Communication Cable, Unheated Sealing Jaws

Note:

- 1. The gas supply port of the instrument is $\Phi 8 \text{ mm PU}$ 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 for the latest updates. Labthink reserves the rights of final interpretation and revision.