

C630H Heat Seal Tester

The melting point, thermal stability, fluidity and thickness are the factors that may influence the heat sealing properties of materials. The heat sealing parameters for those materials are quite different. **C630H Heat Seal Tester** can be used to determine the optimal heat sealing parameters including dwell time, sealing pressure and sealing temperature for plastic films, flexible composite films, plastic coated paper and other heat-sealable films.



Product Features^{Note1}

- Ten (upper and lower) sealing jaws with metal surfaces to obtain heat sealing parameters that are close to actual parameters
- Digital P.I.D. temperature control technology ensures the preset temperature to be reached rapidly without fluctuations
- Auto constant pressure technology guarantees the stable sealing pressure, requiring no manual adjustment
- Auto leveling technology of sealing jaws ensures uniform sealing performance
- Wide range control of temperature, pressure and time that meet various test conditions
- Manual or pedal switch, as well as anti-scald design provides convenient and safe operating environment
- Professional software supports remote operation for convenient data saving, exporting and printing

Excellent User-oriented, High-efficient and Safe Designs

- The instrument can complete 5 groups of specimen tests at a time, helps the user to obtain heat sealing parameters of the specimens accurately and efficiently.
- The temperature of upper sealing jaws and lower sealing jaws can be controlled separately, which can meet the requirements for different combination of temperatures
- Separated type sealing jaws can be easily replaced
- Manual and pedal switch mode for starting test as well as the anti-scald design ensures the safe operation

High-end and Easy-to-Use Embedded Computer-controlled System

- The instrument is equipped with large size tablet (touch screen), which is easy to operate and observe during the test process
- Brand new software simplifies the testing process.
- The system supports comparison analysis of groups of test data with unit conversion function
- USB ports and internet interface for connecting of external device and data transmission
- The instrument conforms to the requirements of GMP (optional)

- Labthink's unique data security system separates the test data from the computer to avoid the risks caused by computer virus
- Labthink's unique DataShiled™ System for data management and connecting with information system (optional)

Test Standards^{Note1}

ASTM F2029, QB/T 2358, YBB 00122003

Applications^{Note1}

Basic Applications	Films with Smooth 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 should be smooth and width can be designed based on user requirements.
	Films with Decorative Pattern Surface	Including plastic films, plastic composite films, paper-plastic composite films, coextruded films, aluminized films, aluminum foil, aluminum foil composite films and many others. Heat sealing surface can be designed based on user requirements.
Extended Applications	Plastic Flexible Tubes	The ends of plastic flexible tubes are placed in between upper and lower jaws and then sealed to form a package.

Technical Specifications^{Note2}

Specifications	C630H
Sealing Temperature	Room temperature ~ 300°C
Sealing Pressure	0.05MPa~0.7 MPa (7psi~101psi)
Resolution of Pressure	0.001 MPa
Dwell Time	0.1~999.99 s
Resolution of Time	0.01 s
Resolution of Temperature	0.1°C
Temperature Fluctuation	±0.2°C
Temperature Accuracy	±0.5°C (single point calibration)
Temperature Gradient	≤20°C
Gas Supply Pressure	0.7 MPa (101psi)
Port Size	Φ8 mm PU Tubing
Sealing Area	40 mm × 10 mm
Number of Sealing Jaws	5 groups of upper and lower sealing jaws with independent temperature control
Instrument Dimension	375mm (L) × 360 mm (W) × 518mm (H)
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	55 kg

Configurations

Standard Configurations	Instrument, Tablet, Pedal Switch, High-temperature Welding Cloth, Sample Cutter, Φ 8mm PU Tubing (2m)
Optional Parts	High-temperature Welding Cloth, Air Compressor, GMP System, DataShield™ ^{Note3}
Note	1. The gas supply port of the instrument is Φ 8 mm PU Tubing; 2. Customers need to prepare gas supply.

Note 1: The described product features should be in line with Technical Specifications.

Note 2: The parameters in the table are measured by professional operators in Labthink laboratory under strictly controlled laboratory conditions.

Note 3: DataShield™ provides safe and reliable data application support. Multiple Labthink instruments can share one single DataShield™ system which can be configured as required.

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.