

Hot tack tester

HTT-L1

Hot tack tester is used to test hot tack of flexible and semi-rigid packaging materials or pipe materials. Meanwhile, it can also test peel, shear, tension, ... of adhesive, tape, laminated film, plastic film, paper and other flexible materials.

Principle

Clamp the two ends of the specimen between the static jaw and dynamic jaw, the driver moves the dynamic jaw, which produces relative movement. The tester gets electronic signals from the load cell after the specimen suffers the force. After the analysis, you get the data of hot tack, peel and tension.

Note: The Hot Tack Tester tests the strength of a specimen at a specified time interval (tack time) after completion of heat-sealing in melting state but prior to the temperature cooling down to room temperature.

Procedure

For hot tack test:

Switch on the gas source - set parameters (temperature, pressure, time) - place specimen - set hot tack parameters - start test (step the foot switch) - clamp, seal, test - stop automatically

For peel, tension test:

Place the specimen - set parameter - start test - test automatically - stop automatically



Features

- Compatible with many standards of GB, ASTM etc.
- Combines functions of hot tack, hot seal, peeling, tension and other tests in one.
- The hot seal temperature, pressure and time can easily be set by users.
- Temperature control system of digital P.I.D., with high accuracy.
- Parallel heating surface, even temperature, good sealing efficiency.
- World famous pressure control elements of higher accuracy.
- Optional load cell range, easy to change and easy to broaden the test scope.
- Performs many tests of different widths by changing the specimen fixture quickly.
- Test controlled by micro-computer, LED display, with professional software.
- RS232 port, easy to connect with computer.
- With professional software, testing curve and group multiple curves can be printed.
- Electronically timing, several speeds can be selected.
- Automatically zero, intellectual malfunction alerting, overload protection, stroke protection.

Physical specifications

Dimensions

1170 mm x 360 mm x 460 mm (L x W x H)

Weight, net

45 kg

Technical data

Seal temperature

Room temperature ~ 250 °C

Temperature accuracy

+ 0.2 °C

Seal pressure

0.05 ~ 0.7 MPa

Dwell time

0.1 ~ 999.9 s

Tack time

0.1 ~ 999.9 s

Load cell range

0-200 N (30 N 50 N 100 N is optional)

Resolution

0.01 N

Test speed

100 150 200 300 500 and Hot Tack (mm/min)

Type of heat

single heating or double heating

Width of specimen

15 mm or 25 mm or 25.4 mm (Optional)

Stroke

500 mm

Gas supply

0.05 MPa ~ 0.7 MPa

Power

AC 220 V 50 Hz / 60 Hz

Standards

ASTM F1921, ASTM F2029, QB/T 2358(ZBY 28004),
YBB 00122003

Standard configuration

Mainframe, footswitch, hot tack clamp, calibration frame

Optional accessories

Test software, communication cable, non-standard seal jaws, test board, welding cloak, sample cutter, non-standard specimen fixture

Note: Users provide test gas for themselves.

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