C632B Hot Tack Tester

C632B **Hot Tack Tester** is applicable in hot tack and heat seal performance tests for plastic films, laminated films and other packaging materials. It is applicable in peel test, tensile at break test, and other tests for adhesives, adhesive tapes, laminated films, plastic films, paper and other flexible materials.

Product Features[Note1]

Multiple Test Modes in One Instrument

- Four test modes including hot tack, heat seal, peel and tensile test.
- With Digital P.I.D. temperature control system, the preset temperature can be reached in a short time without fluctuations.
- Four force test ranges and 6 testing speeds are available to meet various testing requirements
- The instrument meets the requirement for testing speed specified in standard GB/T 34445-2017

Excellent Designs & Auto Sampling

- Auto sampling for hot tack test, simplifies the testing operation and minimizes errors, ensures the uniformity of test data
- Pneumatic sample clamping system (optional)
- Automatic zeroing, error alert, overload protection and stroke protection guarantee safe operations
- Instrument can be started manually or by pedal switch. it is convenient for the operator and the anti-scald design ensures safe operations
- Components and parts of the instrument are supplied by world renowned manufacturers and have reliable performance

Computer & Instrument Controlled Operations

- Test operations can be performed on the instrument or by the software
- The instrument can be operated without a computer, easy to operate and view test data
- Data I/O ports for data export

Test Standards[Note1]

GB/T 34445, ASTM F1921, ASTM F2029, QB/T 2358, YBB 00122003

Applications[Note1]

Basic Applications	Hot Tack Performance	Plastic films, sheets and composite films e.g. PE, PP, PET and composite films used in packages for instant noodle, milk powder, washing powder, food and drugs
	Heat Seal Performance	Plastic films, sheets and composite films

	Peel Strength	Adhesives and adhesive tapes
	Tensile Strength	Tensile strength test of various films, sheets and composite films
Extended Applications	Medical Adhesives	Peeling test and tensile strength test of medical adhesives e.g. adhesive bandages
	Textiles, Nonwovens and Woven bags	Peeling test and tensile strength test
	Adhesive Tapes	Low speed unwrapping test
	Protection Films	Peeling test and tensile strength test
	Magnetic Cards	Peeling test of the films and magnetic cards
	Bottle Caps	Opening force test of the aluminum plastic combination bottle caps

Technical Specifications[Note2]

Specification	**C632B**
Load Cell Capacity	30 N (Standard) 50 N 100 N 200 N (Optional)
Force Accuracy	Indicated Value ±1% (10%-100% of load cell capacity) ±0.1%FS (0%-10% of load cell capacity)
Force Resolution	0.01 N
Test Speed	150 200 300 500 hot tack 1500mm/min、2000mm/min
Specimen Width	15 mm, 25 mm or 25.4 mm
Stroke	500 mm
Heat Seal Temperature	Room Temperature ~ 250℃
Temperature Variation	±0.2℃
Temperature Accuracy	±0.5℃ (Single Point Calibration)
Dwell Time (Heat Seal Test)	0.1 ~ 999.9 s
Dwell Time (Hot Tack Test)	0.1 ~ 999.9 s
Sealing Pressure	0.05 Mpa ~ 0.7 MPa
Sealing Area	100 mm x 5 mm
Sealing Jaws	Double (one is silicon rubber)
Gas Supply	Air （Not in supply scope）
Gas Supply Pressure	0.7 Mpa (101.5psi)
Port Size	Φ4 mm PU Tubing
Instrument Dimension	1120 mm (L) × 380 mm (W) × 330 mm (H)
Power Supply	220VAC±10% 50Hz / 120VAC±10% 60Hz
Net Weight	45 kg

Configurations

Standard Configurations	Instrument, Manual Clamp, Pedal Switch, Sampling Plate, Calibration Support, Φ4 mm PU Tubing (2m)
Optional Configuration	Computer, Professional Software, Pneumatic Sample Grips, Air Compressor
Note	1.The gas supply port of this instrument is Φ4 mm PU Tubing; 2.Customers need to prepare gas supply.

Note 1: The described test standards, applications and 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.

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