

C620H Friction / Peel Tester can be used to test coefficient of static and kinetic friction of plastic films, sheets, foils, paper, cardboard, woven bags, fabric (fabric style test), metal-plastic composite strip/belt for communication cable, convey belt and textile, as well as peel strength test of adhesive laminated products, medical adhesive bandage, release paper and protection films.



Product Features^{Note1}

Innovative Design of Automatic Lifting of Sled & Upgraded Testing Accuracy and Repeatability

- Two test modes are available i.e. coefficient of friction and peel test
- Innovative automatic lifting of sled ensures accurate still time of the sled and guarantees the high repeatability of coefficient of friction test results
- The sliding plane and the sled are treated by degaussing and remanence detection which effectively reduce the system errors
- Wide range and high-precision of automatic temperature control system to support tests at different temperatures
- Force measuring system is supplied by global well-known supplier, the testing accuracy is higher than 0.5%FS, with better repeatability, multiple test ranges for choice
- Intelligent designs including position restriction, overload protection and auto reset guarantee the safe operation
- The instrument conforms to multiple ISO, ASTM and GB standards

High-end Easy-to-Use Embedded Computer Controlled System

- Large touch screen tablet is easy to view and operate
- Brand new software which is easy to use simplifies the testing operations
- The instrument supports comparative analysis of group of test data, with unit conversion features
- USB ports and net port for data transmission and external connection
- 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 DataShiledTM System for data management and connecting with information system (optional)

Test Standards^{Note1}

ISO 8295, ISO 8510-2, ASTM D1894, ASTM D4917, ASTM D3330, TAPPI T816, TAPPI T549, GB 10006, GB/T 2790, GB/T 2791, GB/T 2792

Applications^{Note1}

Basic Applications	Plastic Films and Sheets	Coefficient of static and dynamic friction tests of plastic films and sheets
	Paper and Paperboard	Coefficient of static and dynamic friction tests of paper and paperboard
	Textiles, Non-woven Fabrics and Woven Bags	Coefficient of static and dynamic friction tests of textiles, non-woven fabrics and woven bags
	Rubber	Coefficient of static and dynamic friction tests of rubber products
	Aluminum Foils and Aluminum Foil Composite Films	Coefficient of static and dynamic friction tests of aluminum foils, aluminum foil composite films and other metal products
	Printing Matters	Coefficient of static and dynamic friction tests of printing matters
	Extended Applications	High Temperature Test
Wood and Flooring		Coefficient of static and dynamic friction tests of wood and flooring
Photographic Films		Coefficient of static and dynamic friction tests of photographic films
Screen of Mobile Phone and Leather		Coefficient of static and dynamic friction tests of mobile screens against the leather products
Adhesives		Peeling test of the adhesive products
Medical Adhesives		Peeling test of medical adhesives e.g. adhesive bandages and plasters
Protection Films		Peeling test of protective films for mobile phones or computers
Magnetic Cards		Peeling test of the films and magnetic cards

Technical Specifications^{Note2}

Specifications	C620H
Test Range	0 ~ 5 N (standard) 0 ~ 10 N, 0 ~ 30 N, 0 ~ 50N, 0 ~ 100N (optional)
Force Accuracy	Displayed Value $\pm 0.5\%$ (10%FS-100%FS) $\pm 0.05\%$ FS (0%-10% of the load cell range)
Force Resolution	0.001 N
Test Speed	0 ~ 500 mm/min (Any integer within this range can be set)
Speed Accuracy	Displayed Value $\pm 0.5\%$ (1%~100% of maximum speed)
Stroke	10 ~ 300 mm
Displacement Resolution	0.01 mm
Test Temperature	Room Temperature ~ 100°C
Temperature Variation	$\pm 0.2^\circ\text{C}$

Temperature Accuracy	±2°C (Single point calibration, within effective area of the test platform)
Test Platform	400mm×150mm
Specimen Thickness	≤ 2 mm
Sled	Weight: 200g Size: 63.5mm×63.5mm Customization is available
Power Supply	220VAC±10% 50Hz / 120VAC±10% 60Hz
Instrument Dimension	635 mm (L) × 300 mm (W) × 250 mm (H)
Net Weight	25 kg

Configurations

Standard Configurations	Instrument, Tablet, COF Test Fixture, Peel Test Fixture, 200g Sled, Sampling Block
Optional Parts	Standard Pressure Roller, Test Plate, Printer, Air Compressor, GMP System, DataShield™ Note3

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.