

PARAM® FPT-F1 Friction/Peel Tester

FPT-F1 Friction/Peel Tester can be used to test coefficients of static and kinetic friction of plastic films, sheets, foils, paper, cardboard, PP woven bags, fabric (fabric style test), metal-plastic composite strip/belt for communication cable, convey belt and textiles, as well as peel strength test of adhesive laminated products, medical adhesive bandages, release paper and protection films.



Product Features^{Note2}

- 2 test modes are available in this instrument including coefficient of friction test and 180° peel test.
- 7 test speeds and 3 test ranges could be selected as required.
- This instrument conforms to multiple standards of ISO, ASTM and GB and the user could select testing methods as required
- Wide range and high-precision of temperature control system to support tests at different temperatures
- This instrument is controlled by computer and micro processing unit which is convenient for user's operation
- The sliding plane and the sled are treated by degaussing and remanence detection which effectively reduce the system errors
- Professional operating software supports superposition analysis of test curves
- Equipped with USB ports which are convenient to the data transmission and PC connection

Test Standards^{Note2}

This instrument conforms to various national and international standards:

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^{Note2}

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	Coefficient of static and dynamic friction tests at higher temperature than room temperature

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^{Note1}

Specifications	FPT-F1
Test Range	0~5 N, 0~10 N, 0~30 N
Load Measurement Accuracy	±0.5% of reading from 10% to 100% of the load cell capacity
Mass of Sled	200g, 500g (Standard) 100g, 1000 g, 1814 g, 2000 g are optional
Test Speed	50, 100, 150, 200, 250, 300, 500 mm/min
Temperature	Room Temperature ~ 99.9°C
Power Supply	220VAC 50Hz / 120VAC 60Hz
Instrument Dimension	850 mm (L) x 350 mm (W) x 290 mm (H)
Net Weight	30 kg

Configurations

Standard Configurations	Instrument, Peeling Grips, Sled of 200g, Sled of 500g, Professional Software, USB Communication Cable
Optional	Test Plate, Sample Cutter, Customized Sled, Customized Sample Grips and Load Cell (Different Ranges)

Note 1: The parameters in the table are measured by professional operator in Labthink laboratory according to relative requirements for laboratory standard conditions.

Note 2: The described product features, test standards and configurations should be in line with Technical Specifications.

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.