



Thwing-Albert Instrument Company

More Than a Century of Testing Solutions

FP-2260 Friction/Peel Tester

The Thwing-Albert FP-2260 Friction/Peel Tester is a versatile testing instrument for measuring the coefficient of friction, peel strength, seal strength and tensile strength of flexible plastic films, paper, labels, tapes, nonwovens, textiles and other sheet materials. It was designed to provide flexibility for its users so it is useful in many different industries such as the paper, plastic, adhesives, textile, flexible packaging, foils, coatings, leather and paperboard industries, as well as others.



FP-2260 Friction/Peel Tester



FP-2260 w/ Heated Platen



MAP-4 Software
(Windows 7 Compatible)

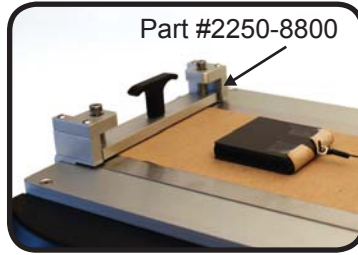
- Complies to industry standards for tensile, peel, and coefficient of friction testing
- Intuitive menu design which provides more results with fewer key strokes
- Ability to create, save and password protect test setups
- Memory capacity on the FP-2260 can store 128 individual tests for COF, Peel, or Tensile
- Sampling rate up to 250 times per second with MAP-4 software
- MAP-4 software allows users to instantly view and analyze test data
- Many optional accessories and fixtures are available to perform a variety of peel, COF, seal tests, and tensile tests
- Automatic load cell capacity recognition
- Stable load system



Fixtures & Accessories



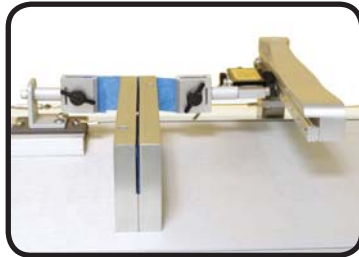
The FP-2260 is equipped with the spring clip clamp assembly for thick or thin sample materials.



Optional Clamp: this sample clamp assembly is ideal for thin-sheeted materials.



The 180 degree peel arm for peel testing is included with all FP-2260 units.



The T-Peel fixture maintains a 90 degree angle for the tail during a peel test.



The 90 degree peel fixture is an ideal accessory for adhesive materials. Also available with a heated option.



The COF Sled shown with optional sample clamp on the FP-2260 Heated Platen Fixture with temperature range 21°C to 176.7°C (70°F to 350°F).

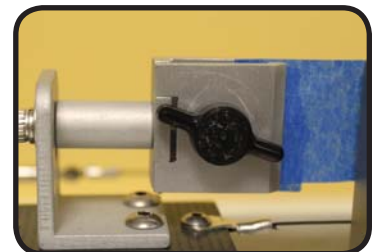
The FP-2260 Friction Peel Tester can be equipped with attachments that allow testing for a wide variety of standards. Sample tests include:

- ASTM D1894 (COF for Plastics)
- ASTM D4521 (COF for Corrugated/Fiberboard)
- ASTM D2534 (Coefficient of Kinetic Friction for Wax Coatings)
- ASTM D3330 (Peel Adhesion for Pressure Sensitive Tape 180°)
- ASTM F88 (Seal Strength for Flexible Barrier Material)
- AFERA: 4001 P11
- FINAT: FTM 1-6, 10, 11
- ISO 6383 (Tear Resistance of Plastic Films)
- ISO 8295 (COF for Plastics)
- PSTC: 101 (A, B, C, D, E, F), 4, 15, 55
- TAPPI T-816 (COF for Corrugated and Paperboard)
- TAPPI T-549 (COF for Uncoated Writing & Printing Paper)
- TLMI: L-IA1, L-IA2, L-IA3

Visit www.thwingalbert.com for a complete listing of industry standards.



Air Clamps



Manual Clamps



FP-2260 Shown with T-Peel Fixture

Specifications

Physical Specifications - Model FP-2260

Dimensions: 27 in L x 12 in W x 7 in H (685.8 mm x 304.8 mm x 177.8 mm)
 Shipping Dimensions: 29 in L x 21 in W x 15 in H (838.2 mm x 609.6 mm x 355.6 mm)
 Net Weight: 44 lb (20 kg)
 Approx. Gross Weight: 52 lb (23.6 kg)

Performance Data - Model FP-2260

Measurement

Load Cell Range: 0.5kg, 1kg, 2kg, 5kg, 10 kg
 Force Resolution: 0.1g for all load cells
 Force Accuracy:
 10% to 100% load capacity:
 ±0.25% of measured value
 Less than 10% load capacity:
 ±0.025% of Load Cell Capacity
 Force Units:
 Grams, Kilograms, Ounces, Pounds, Newtons

Travel Speed

Standard Speed:
 1 to 20 in/min (25.4mm to 508mm/min)
 High Speed:
 10 to 110 in/min (254 to 2,794 mm/min)

Test Times

0.1 to 99 seconds- Variable for COF, and Peel

Travel Distance

0.1 to 14.0 in (0.3 to 38 cm)

Test Result Readouts

COF: Static, Kinetic, Slide Angle, Standard Deviation of Kinetic Data
Peel: Average, High, Low, Standard Deviation
Tensile and Seal: Peak
 Statistical Analysis

Power Options

110-230 Volts, 50-60 Hz

Standard COF Sled Options

200g, 500g, 1000g, and 3lb



EZ Sled (200 g) - 00225-3050



COF Sled (200 g) - 00225-0218



Heated Platen COF Sleds



COF Sled (200 g) - 02250-4400



Self Adjusting 3-Ball Sled - 02250-3111



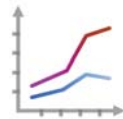
NOTE: Custom sleds are available. Software accepts variable sled weights.

Specifications subject to change without notice.



MAP-4 Software

MAP-4 software comes equipped with preset standards available for use out of the box. The MAP-4 software is compatible with the FP-2260 Friction/Peel Tester and allows the instrument to run using Windows 7. This easy-to-use software is used to design, customize and maximize your testing procedures and final output using simple menus.



Test methods are built-in to the program for various applications including coefficient of friction (COF), 180° peel, 90° peel, T-Peel and with the ability to customize these tests, the potential is unlimited. When it comes to flexibility and capability, MAP-4 software is equipped to test a variety of materials including paper, plastic, rubber, textiles, and nonwovens.

Data Acquisition

Automatically capture test results and statistics for Friction and Peel testing and store them with test identifiers. Data capture includes:

- **Peel Testing -**
Max, Mean, Min, and Standard Deviation
- **Coefficient of Friction Testing -**
Static, Kinetic, Static Slide Angle, and Kinetic Standard Deviation
- **User Defined Results -**
Specific to your testing needs
- **Report/Statistical Data -**
Max, Min, Average, and Standard Deviation



Data Management

Include information identifying test conditions and sample type, add and delete tests from group data, mark files to view multiple curves and define viewable data range.

Built-in Reporting

Create a report of a series of tests by selecting "Report" on the Friction/Peel Tester or select specific test results to be included.

MAP-4 LTE Basic Software Option Available:



This is a simplified MAP-4 Software option recommend for ease of use and basic data evaluation purposes.

- Instantly view and analyze test data
- Report statistical data
- Store test procedures
- Establish tracking variables
- SQL database for test results

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