

FP-2260 Friction Peel Tester

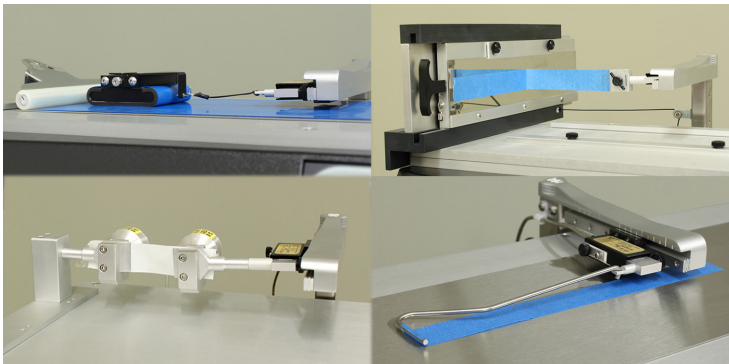
COF, Peel, Seal

The FP-2260 Friction/Peel Tester is a powerful and flexible testing instrument for the accurate measurement of coefficient of friction (COF), adhesion/peel strength and seal strength for a wide range of materials and applications.

Select from a variety of COF sleds along with standard and custom peel fixtures to measure at varying orientations such as 180°, 90° and "T". Mechanical and pneumatic clamps are available to provide an efficient means to perform seal strength tests. This instrument meets popular testing methods such as **ASTM D1894**, **ASTM F88** and **PSTC 101**.

The interface of the FP-2260 was designed with the user in mind. This intuitive platform allows for quick configuration of tests. Test parameters such as units of measure, test speed, test distance, test time and sampling rate can be set and saved as a test method for easy recall. Up to 30 test methods can be created, saved, and edited to facilitate testing.

For applications that require elevated temperatures, an optional heated top platen and 90° Peel Fixture are available. Featuring a digital temperature controller, the operator can set the temperature between ambient and 176°C (350°F).



COF Applications:

Paper, Paperboard, Plastic Film, Ink/Coatings, Foil/Metal, Fabrics

Adhesion/Peel Applications:

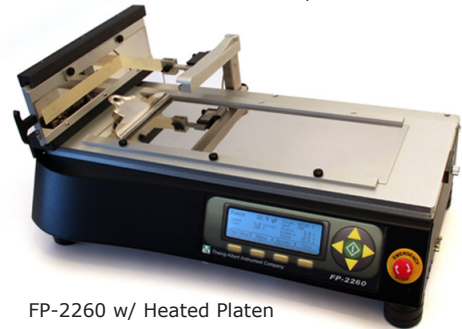
Adhesives, Tapes, Pressure Sensitive Adhesives, Lamination Strength

Seal Strength Applications:

Flexible Packaging, Lidding Strength



FP-2260 Friction/Peel Tester



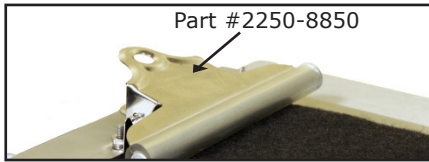
FP-2260 w/ Heated Platen

FEATURES

- Meets a wide range of industry standards for COF, peel and seal testing
- Horizontal testing platform
- Large test area measuring 60 x 25.4 cm (L x W)
- Automatic Load Cell recognition
- Selectable sample rates of 50, 60 or 250 dps
- Fully adjustable load cell position in the X, Y and Z axis.
- 30 Test Methods can be created and saved
- 128 test memory capacity
- Password protection



COEFFICIENT OF FRICTION



Spring Clip Clamp assembly for holding samples in place.



Heated Platen - Temp Range
21°C to 176.7°C (70°F to 350°F)

Standard COF Sled Options - 200g, 500g, 1000g, and 3lb



EZ Sled (200 g) - 00225-3050



COF Sled - 02250-4400



COF Sled (200 g) - 00225-0218



Heated Platen COF Sleds

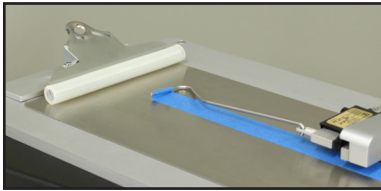


Self Adjusting Sled - 02250-3111

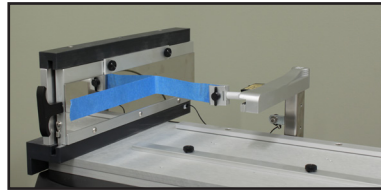


NOTE: Custom sleds are available. Software accepts variable sled weights.

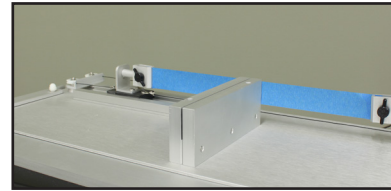
PEEL STRENGTH FIXTURES



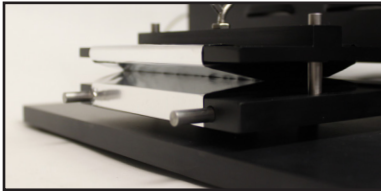
The 180 degree peel arm for peel testing is **included with all FP-2260 units.**



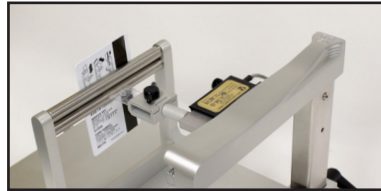
The 90 degree peel fixture is also available heated.



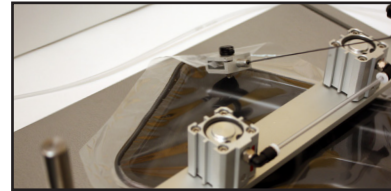
T-Peel Fixture



Film Blocking Fixture

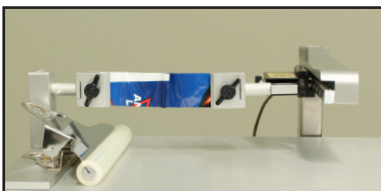


Delamination Fixture

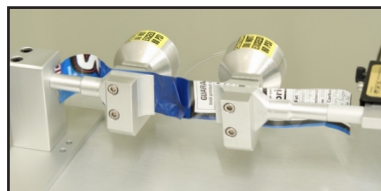


Tray Peel Fixture

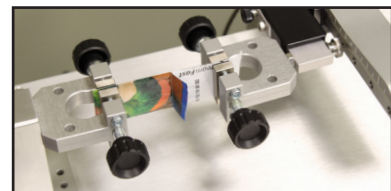
SEAL STRENGTH CLAMPS



Manual Clamps



Air Clamps



Vise Clamps - 100N

BUILT-IN INTERFACE WITH STATISTICAL RESULTS



Easy to use interface makes it quick to set COF, Peel or Seal Strength testing parameters. Store up to 30 unique tests for efficiency when changing samples or methods.



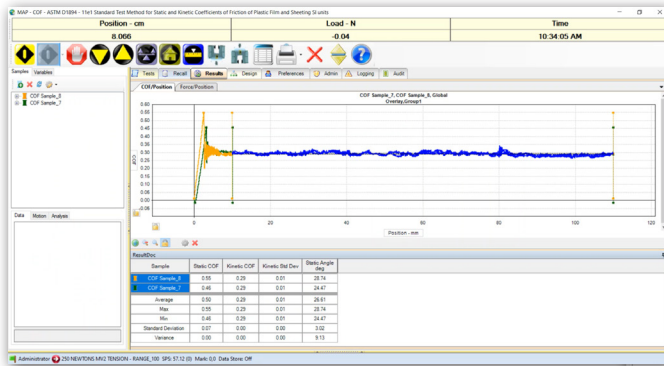
Results are displayed and calculated based on the setup method and units of measured selected prior to testing. Review stored tests and statistics easily.

ADVANCED ANALYSIS WITH MAP4 SOFTWARE

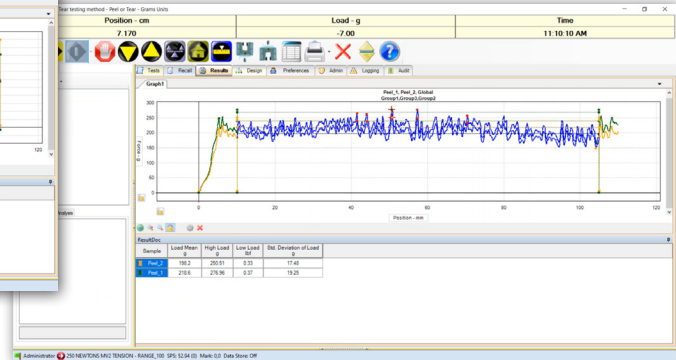


The option to add MAP4 software enhances the reporting capabilities of the instrument. While the software is provided with a library of test methods meeting the most common industry standards, the user can create custom test methods to meet their specific testing needs including complex motion, analysis and reporting.

- Intuitive user interface to simplify testing
- Comprehensive library of test methods
- Easily create/modify/save test setups
- Automatic graphical analysis of each test
- SQLite database captures tests automatically
- Search and recall historical data
- User defined tracking variables
- Calculated Statistics: avg, max, min, std dev, variance
- Configurable user profiles with password protection
- Automatic data export to Excel
- Complex motion and data analysis available



↑ Sample MAP4 Results for COF Testing



↑ Sample MAP4 Results for Peel Testing

PHYSICAL SPECIFICATIONS

Dimensions (L x W x H):

27 x 12 x 7 in
685.8 x 304.8 x 177.8 mm

Shipping Dimensions (L x W x H):

29 x 21 x 15 in
838.2 x 609.6 x 355.6 mm

Net Weight: 44 lb (20 kg)

Gross Weight: 52 lb (23.6 kg)



FP-2260 Shown with T-Peel Fixture

COMMON STANDARDS

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 8295 - COF for Plastics

PSTC: 101 (A, B, C, D, E, F), 4, 15, 55

TAPPI T816 -
COF for Corrugated and paperboard

TAPPI T549 -
COF for Uncoated Writing & Printing Paper

TLMI: L-IA1, L-IA2, L-IA3

PERFORMANCE DATA

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

Seal: Peak

Statistical Analysis

Power Options

110-230 Volts, 50-60 Hz