

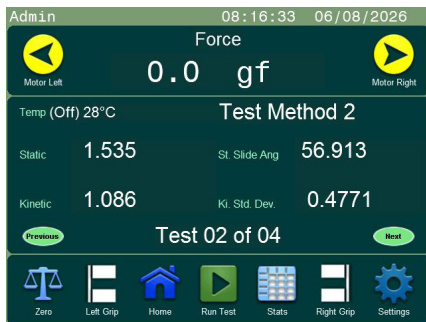
FP-2265 Friction/Peel Tester

COF · Peel · Seal · Light Tensile

The FP-2265 is a benchtop tester for coefficient of friction (COF), peel adhesion, seal strength, and light tensile. One instrument covers multiple test methods to ASTM, ISO, TAPPI, and PSTC standards. Swap fixtures as needed or set it up as a dedicated tester for plastic film, paper, paperboard, adhesives, labels, and flexible packaging materials.

Select from a variety of COF sleds along with standard and custom peel fixtures to measure at 180°, 90°, and T-peel orientations. Mechanical and pneumatic clamps are available for seal strength testing. Meets ASTM D1894, ASTM F88, ISO 8295, PSTC 101, and more.

The color touchscreen interface allows for quick test configurations and recall of up to 30 saved test methods. Built-in pneumatics eliminate the need for an external control switch. The optional Universal Instrument Remote (UIR) puts test control at the operator's fingertips. Test data and reports can be exported in CSV format with unique Sample ID and Report ID tracking for full traceability.



COF Applications:

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

Adhesion/Peel Applications:

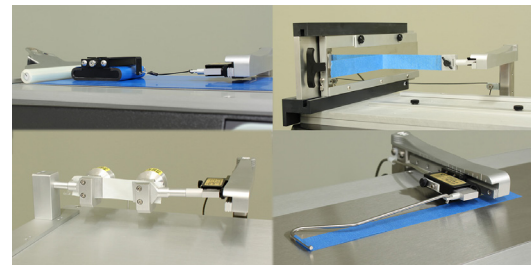
Adhesives, Tapes, Pressure Sensitive Adhesives, Labels, Laminated Films

Seal Strength Applications:

Flexible Packaging, Lidding Seals, Medical Packaging, Sterile Barrier Films

Tensile Applications (Up to 10 kg / 22 lb load):

Plastic Film, Flexible Packaging, Thin Foils, Labels, Adhesive Tapes, Lightweight Nonwovens, Paper, Tissue, Toweling



FEATURES

- Color touchscreen interface
- Compatible with existing FP-2260, FP-2255, and FP-2250 fixtures and load cells
- Export data in CSV format to flash drive or serial output
- Automatic load cell recognition
- 30 saved test methods
- 128 saved test results
- Password protection with configurable security groups
- Built-in pneumatic controls for pneumatic grips and fixtures
- MAP4 Testing Software (optional)
- Dual load cell capability (optional)
- Universal Instrument Remote (optional)



Thwing-Albert
Instrument Company



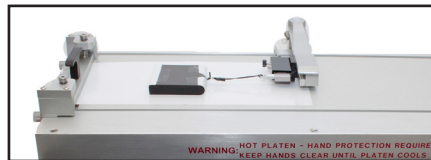
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COEFFICIENT OF FRICTION



Spring Clip Clamp assembly for holding samples in place.



Heated Platen - Temp Range
up to 204.4°C (up to 400°F)

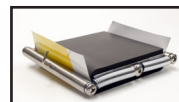
Standard COF Sled Options - 200 g, 500 g, 1000 g, and 3 lb



EZ Sled (200 g) - 00225-3050



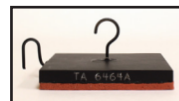
COF Sled - 02250-4400



COF Sled (200 g) - 00225-0218



Heated Platen COF Sleds



Self Adjusting Sled - 02250-3111

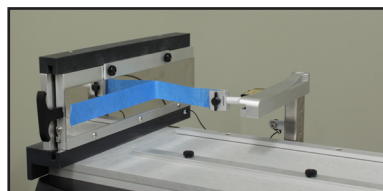


NOTE: Custom sleds are available. Software accepts variable sled weights.

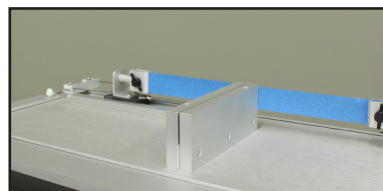
PEEL STRENGTH FIXTURES



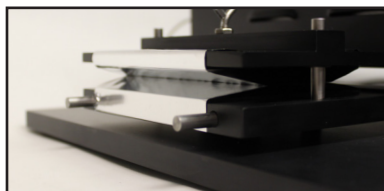
The 180 degree peel arm for peel testing is **included with all FP-2265 units.**



The 90 degree peel fixture is also available heated.



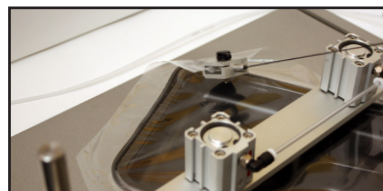
T-Peel Fixture



Film Blocking Fixture

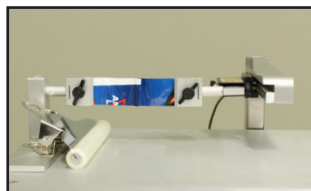


Delamination Fixture

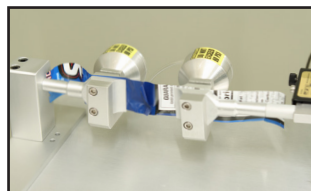


Tray Peel Fixture

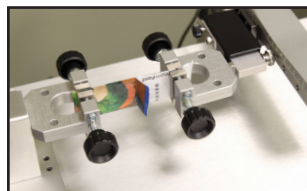
SEAL STRENGTH CLAMPS



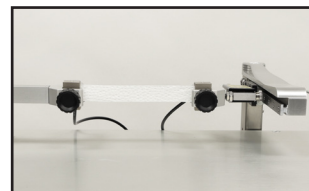
Manual Clamps
Part #2250-0450



Air Clamps
Part #2265-8400



Vise Clamps - 100 N
Part #2250-8420



Pneumatic Clamps - 100 N
Part #2265-8421

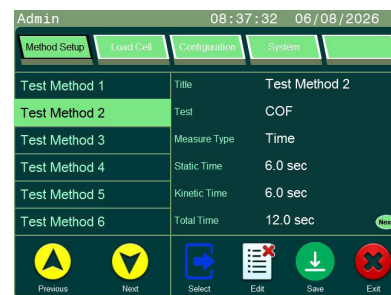
TOUCHSCREEN INTERFACE WITH STATISTICAL RESULTS



Real-time test results from the main screen of the instrument.



Method view of the current setup is easy to review and modify as needed. Save up to 30 Methods.



Create and store settings for your COF, Peel, Seal or Tensile specifications.



Test Results are shown and can be scrolled through for easy review.



Statistics include average, high, low and standard deviation.



Easy to omit invalid tests or data you do not want to report.

ADVANCED ANALYSIS WITH MAP4 SOFTWARE



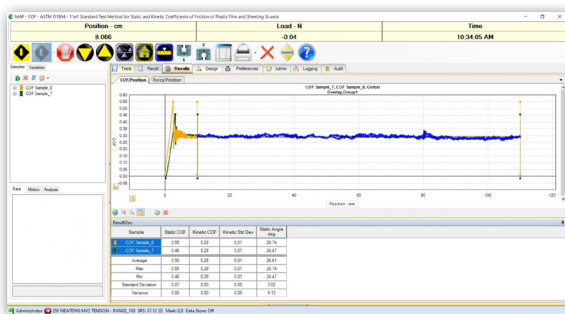
MAP4 software extends the capabilities of the FP-2265 with advanced data analysis, custom test methods, and automated reporting. Compatible via USB.

Analysis & Reporting

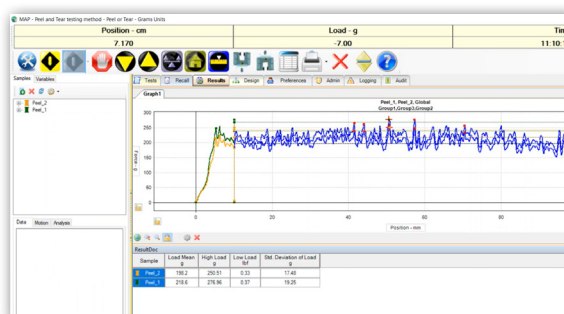
- Automatic graphical analysis
- SQLite database, automatic capture
- Historical data search and recall
- Automatic Excel export
- CSV compatible

Test Management

- Comprehensive built-in test library
- Custom test method creation
- User profiles and password protection
- Calculated statistics: avg, max, min, std dev
- Complex motion and data analysis



↑ Sample MAP4 Results for COF Testing



↑ Sample MAP4 Results for Peel Testing

PHYSICAL SPECIFICATIONS

Dimensions (L x W x H):

62.2 x 43.8 x 13.3 cm
24.5 x 17.25 x 5.25 in

Net Weight: 18.4 kg (40.6 lb)

Shipping Dimensions (L x W x H):

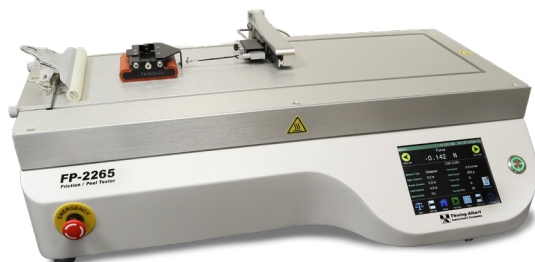
73.7 x 53.3 x 38.1 cm
29 x 21 x 15 in

Gross Weight: 23.6 kg (52 lb)

Test Area: 60 x 25.4 cm (23.6 x 10 in)

Heated Platen Model

Temperature Range: Ambient to 204.4°C (400°F)
Temperature Accuracy: $\pm 2.0^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$)
Temperature Deviation: $\pm 5.0^{\circ}\text{C}$ ($\pm 9.0^{\circ}\text{F}$) across platen



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, 2, 3, 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: 0.5, 1, 2, 5, 10 kg

Force accuracy:

$\geq 10\%$ capacity: $\pm 0.25\%$ of measured value
 $< 10\%$ capacity: $\pm 0.025\%$ of capacity

Force Resolution: 0.003% of load cell capacity

Force Units: g, kg, N, oz, lb

Load cell position: X, Y and Z axes are fully adjustable

Sample rate: 50 or 60 samples/sec

SPEED

Speed range: 2.54–279.4 cm/min (1–110 in/min)

Speed accuracy:

≤ 139.7 cm/min (55 in/min): ± 0.25 cm/min (0.1 in/min)
 > 139.7 cm/min (55 in/min): $\pm 0.5\%$ of speed

DISTANCE

Distance range: 0.3–39.4 cm (0.1–15.5 in)

Distance accuracy: ± 0.05 mm (0.002 in)

Distance resolution: 0.0004 mm (0.000016 in)

Test times: 0.1–99 sec, COF & Peel

TEST READOUTS

COF: Static, Kinetic, Slide Angle, Std Dev

Peel/Seal: Avg, High, Low, Std Dev

Tensile: Peak, Elongation @ Peak/Break

Statistical: Avg, Max, Min, Std Dev

OTHER

Auto return/stop: default mode

Travel switches: optical travel limit

Operating Environment:
Temperatures from 0 to 40°C (32 to 104°F)

Power Requirements:
Universal 120/240V, 50/60 Hz



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