# REIBUNGSPRÜFGERÄT, FRICTION PEEL TESTER


Das **Reibungsprüfgerät - Reibwerttester** (Friction Peel Tester) eignet sich zur einfachen und schnellen Ermittlung der Reibungskoeffizienten wie **Haftreibungskoeffizient und Gleitreibungskoeffizienten**, sowie zur Bestimmung von Abzugskräften an Folie, Papier, Nonwovens, Textilien, und anderen Bahnmaterialien.
Das **Reibungsprüfgerät** - **Reibwerttester** (Friciton Peel Tester) arbeitet bei Prüfgeschwindigkeiten zwischen 5-50 cm/min oder zwischen 25-280 cm/min. Die Messzeiten für die Bestimmung der Reibungskoeffizienten können frei eingegeben werden. Eine optionale Heizplatte ermöglicht Messungen bis zu einer Temperatur von 177 °C.
**Das Messgerät für die Reibwertbestimmung** arbeitet gemäß nationalen und internationalen Normen.

## EIGENSCHAFTEN

- menügeführte Einhandbedienung
- komfortable Auswertungssoftware zur Darstellung der Grafik und Speichern der Ergebnisse
- feine Auflösung durch präzise Kraftaufnehmer, Messbereiche bis 500 g; 2.000 g oder 10 kg
- Prüfschlitten sind zwischen 100 und 2.000 g erhältlich
- T-Peel, 90°-, 180°-Abzugsvorrichtungen, auch gemäß FINAT
- optionale Heizplatte für Messungen bis 177 °C
- RS-232 Schnittstelle für den Datentransport

## TECHNISCHE DATEN

| | |
|---|---|
| **Stromanschluss** | 100 V / 50 Hz, 230 V / 50 Hz |
| **Druckluftanschluss** | nein |
| **PC-Anschluss** | RS-232, USB |
| **Breite / Durchmesser** | 0,70 m |
| **Tiefe** | 0,50 m |
| **Höhe** | 0,25 m |
| **Gewicht (netto)** | 25 kg |

## NORMEN

AFERA 4001 P11
ASTM D1894
ASTM D3330
ASTM D4521
DIN 53375
FINAT FTM1
FINAT FTM2
FINAT FTM3
FINAT FTM5
FINAT FTM6
ISO 8295
TAPPI T816

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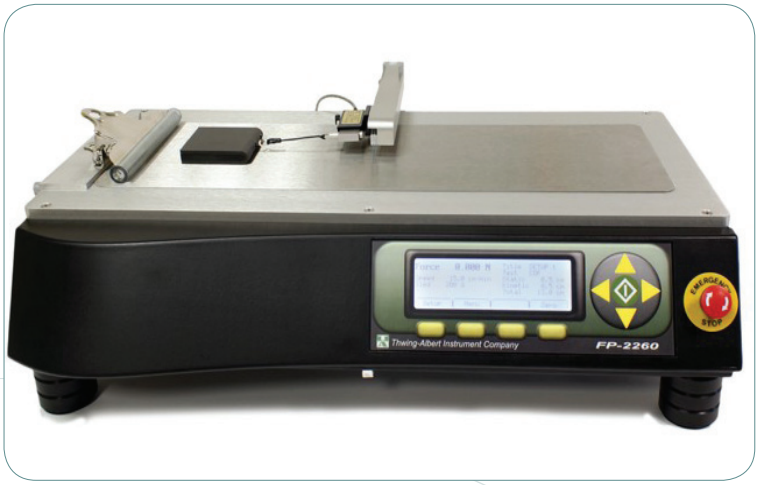
RYC-D-04-43-FP 2260

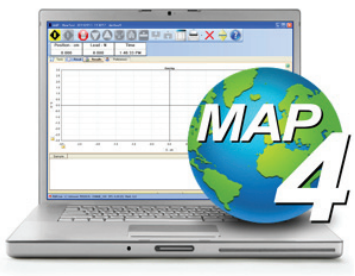
# FRICTION PEEL TESTER




The Thwing-Albert FP-2260 Friction/Peel Tester is a versatile testing instrument for measuring the coeffi cient of friction, peel strength, seal strength and tensile strength of fl exible 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 paperboardindustries, as well as others.

## Advantages

- 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 20 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 laod cell capacity recognition
- Increased load cell stability




MAP-4 Software
Windows 7 Compatible

## Features

- Multifunctional membrane keypad
- Easy to read display (240 pixels x 64 pixels)
- Automatic load cell recognition
- Interchangeable .5kg, 1kg, 2kg, 5kg and 10kg load cells
- Adjustable crosshead and load cell (Vertically and Horizontally)
- Automatic Return of the crosshead
- 14" of Crosshead travel
- Store 128 tests each for COF, Peel and Tensile
- USB and RS-232 Data Communication Port
- Available test area 225mm x 350mm
- Electronic over travel switches
- Selectable force units [g, kg, lbf, oz, N]
- Preset industry standard test method storage
- Ability to save customized test setups


FP-2260 w/ Heated Platen

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# Technical specifications

**Measurement**

- Load Cell Range: 5N, 10N, 20N, 100N
- Force Resolution: 0.1g for all load cells
- Force Accuracy: 10%-100% of the load cell capacity, 0.25% of measured value; Less than 10% is .025% of the load cell capacity

**Travel Speed**

- Standard Speed: 25.4 mm to 508 mm/min
- High Speed: 254 to 2794 mm/min

**Travel Distance**
0.1 to 14.0 in (0.3 to 38 cm)

**Power Requirements**
110 VAC, 50/60 Hz/ 220/230 VAC, 50Hz/ 240 VAC, 50Hz

**Standard COF Sleds**
200gm, 500gm, 1000gm, and 3lb (Other sleds are available. Software accepts variable sled weights.)

**Test Times**
0.1 to 99 seconds- Variable for COF, and Peel

**Test Result Readouts**

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

**Accessories Available**

- Low capacity tensile - manual and air operated grips for seal and tensile tests
- Standard and Custom COF sleds
- 90°/180° peel fixture
- T-peel fixture
- Tray peel fixture
- Delamination test fixtures
- Heated Platen for testing at elevated temperatures up to 350° F

# Physical specifications

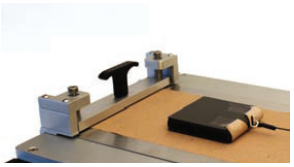
**Dimensions**
685.8 mm x 304.8 mm x 177.8 mm (L x W x H)

**Shipping dimensions**
838.2 mm x 609.6 mm x 355.6 mm (L x W x H)

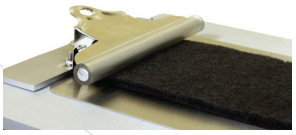
**Net Weight**
20 kg

**Gross Weight**
23,6 kg

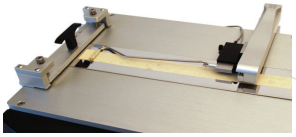
**Standards**
ASTM D1894, ASTM D4521, ASTM D2534 ,ASTM D3330, ASTM F88, AFERA: 4001 P11, FINAT: FTM 1-6, 10, 11, ISO 6383, ISO 8295, PSTC, TAPPI T-816, TAPPI T-549, TLMI.



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

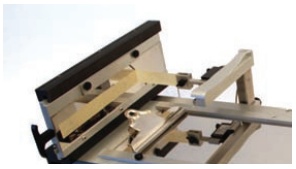


The FP-2260 is equipped with spring clip assembly for thick or thin samples.



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 Spring Clamp on the FP-2260 Heated Platen Fixture with Temperature Range 21°C to 204°C

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