

product specification

Friction/Peel Tester



Description

The Friction/Peel Tester is an extremely versatile instrument for measuring the static and kinetic coefficient of friction as well as peel properties of paper, paperboard, plastic films, adhesives, labels and packaging materials. Continuous software improvements have resulted in an enhanced testing instrument capable of measuring COF, 90° peel, 180° peel, T-peel and seal strength.

Friction testing

Used for testing slip and friction properties of sheeted materials and the evaluation of treatments and additives designed to minimise surface contact friction.

Peel testing

Provides both peak and average peel strength for materials such as pressure sensitive tape, adhesive labels, and low strength bonding agents. Evaluates the strength of packaging seals.

Models

225-1 The standard unit provides a load cell of choice (0.5, 2 or 10 kg), a selection of sleds and peel clamps, data storage with statistics and a printer output. COF and peel settings are saved for quick retrieval for future testing and a standard serial RS-232 port provides result data and continuous curve data for PC interface.

225-2000/MAP Similar to model 225-1, but equipped with a Pentium® processor and MAP (Motion, Analysis, Presentation) materials testing software.

225-2000/COFMAP Similar to model 225-2000/MAP, but with software developed specifically for measuring frictional properties of tubing and catheters. Provides accurate data on static and kinetic coefficients of friction.

Features

- Menu-driven one-hand operation
- Push-button auto-zero and test selection
- Read-out directly in static and kinetic units
- Selectable force units (g, kg, oz, lb and N)
- Four preset speed settings and variable speed setting
- Software for storage, analysis and graphical display of test data (recall for 99 tests)
- Fine resolution through latest L/C technology, measuring range up to 500 g, 2000 g or 10 kg

Friction/Peel Tester



Physical specifications

225-1

Dimensions 69 x 48 x 41 cm (L x D x H)
Net weight 22 kg

225-2000/MAP

Dimensions 69 x 31 x 178 cm (L x D x H)
Net weight 20 kg

Options

- Talas software: provides enhanced analytical capabilities and enables the test data to be displayed graphically with storage of results and curve data for a series of measurements. Requires an external PC.
- Sample clamps: air and mechanically operated clamps available for 180° peel tests
- Delamination fixture: performs a 90° peel test on rigid material to measure lamination strength
- 180° T-peel attachment: maintains a constant 180° angle during measurements
- 90° peel attachment: maintains a constant 90° angle during measurements
- Heated platen: for measurements up to 177°C

Performance data

Measurement

Range 500, 2000 and 10,000 g
Resolution 0.5 g for 2000 g/1.0 g for 10,000 g
Accuracy 0.1% of full scale
Load units g, kg, oz, lb and N

Travel

Speed 2–20 in/min (50.8–508 mm/min)
High speed option 10–110 in/min (254–2794 mm/min)

Test times

Up to 4 presets and variable test times from 0 to 60 s for COF and peel tests

COF sleds

100, 200, 500, 1000 and 2000 g (custom sleds are available upon request)

Power

115 V ± 10%, 60 Hz or 220 V ± 10%, 50 Hz

Standards

ISO 8295, DIN 53375, ASTM D1894, D4521, D3330, TAPPI T-816, BS 2782, FINAT 1, 2, 3, 9

