

# LAB MASTER® SLIP AND FRICTION 32-91



The Lab Master® Slip and Friction is designed to precisely determine the friction characteristics of numerous materials. It removes operator variability from the test procedure with specially designed features to control sled placement rate, orientation/angle, dwell time, and removal. The new Windows™ Based Software features: The ability to create user-defined test setup with built-in ASTM, ISO and TAPPI methods, individual test speed selection for both static and kinetic COF, exporting capabilities of graphs or data to Microsoft Excel® and SPC files, and enhanced calibration-verifies existing and new calibration, and keeps a calibration log for ISO record-keeping.

## APPLICATIONS

Flexible packaging, Foils, Paper, Corrugated, Coatings, Metal, Wood, Printing, Nonwovens, Rolling resistance, Writing instruments, Medical devices, Composites, Rubber, Linoleum, Textiles and Leather

## SPECIFICATIONS

- Selectable speeds from 0.4 to 550 in. per minute (10 to 13,970 mm per min.)
- Travel distance is selectable from 1 to 8.5 in. (25 to 216 mm )
- Meets TAPPI T549 and T816, ASTM D1894 and D4521, DIN 53375, and ISO 15359

## FEATURES

- Integrated PC system running Windows™ based software
- User can pre-select test speed, delay time, and test distance
- Units are displayed in gram force or COF
- The ability to create user-defined test setup with built-in ASTM, ISO and TAPPI methods.
- Individual test speed selection for both static and kinetic COF
- A high-speed data acquisition system accurately locates and captures the static peak
- A computer controlled elevator system automatically lowers and raises the sled at a repeatable rate
- Automated Elevator System removes operator variability from the test procedure with specially designed features to control sled placement rate, orientation/angle, dwell time, and removal
- Optional peel attachment available for 180° adhesion or release measurements
- Optional heated platen available



▲ Electronic calibration system using dead weights



▲ Elevator System automatically raises and lowers sled

## SPECIFICATIONS

Model	32-91-00-0001
Speed Range	0.4 to 550 inches per min (10 to 13,970 mm per min)
Travel Distance	1 to 8.5 in (25 to 216 mm)
Load Cell	50 newtons (11 lb)
Weight	57 lb (26 kg)
Instrument Size W x D x H	25 in x 15 in x 10 in (640 mm x 380 mm x 254 mm)
Electrical	Specify voltage requirements when ordering

## STANDARDS

TAPPI T549	Coefficients of Static and Kinetic Friction of Uncoated Writing and Printing Paper by Use of the Horizontal Plane Method
TAPPI T816	Coefficient of Static Friction of Corrugated and Solid Fiberboard (Horizontal Plane Method)
ASTM D1894	Standard Test Method for Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting
ASTM D4521	Standard Test Method for Coefficient of Static Friction of Corrugated and Solid Fiberboard
DIN 53375	Plastics: Determination of carbon black content of polyfins and its products. Part 1: Nitrogen atmosphere test
ISO 15359	Paper and board -- Determination of the static and kinetic coefficients of friction -- Horizontal plane method

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