

Model FX-7100 F/W

Film Coefficient of Friction Tester

Console-Driven Friction Testers for Film and Sheet Materials



The Model FX-7100 Film Coefficient of Friction Tester.

In the past, film and sheet producers and converters have had the choice of off-line friction testers which are manually operated stand-alone machines, or expensive computer-operated machines. Now you can have both in a single instrument. Oakland Instrument offers the Model FX-7000, a simple to use analog-based friction tester, the Model FX-7100, a stand-alone digital-based tester with optional software for automatic calculation and graphical display of static and kinetic friction data, and the Model FX-7100 F/W, a stand-alone digital-based tester with console-driven firmware for automatic calculation and display of Static and Kinetic COF values.

Oakland Instrument

Oakland Instrument Corp. specializes in the design, manufacture and distribution of test, measurement and control systems for the plastics, packaging, and paper industries.

Customer-Driven

We team with our customers to help them solve their quality- and process-control problems.

Technology-Based

Our applications knowledge and engineering depth allow us to offer both standard and custom systems based on industry-leading technology.

Easy-to-Use Console Display of Static and Kinetic COF Values

The FX-7100 F/W Friction Tester is a proven tool for measuring nominal (Kinetic) and peak (Static) friction values simultaneously:



Digital Console Display Showing Measured Kinetic and Static COF Values

In this example, reported Static Coefficient of Friction is .243, reported Kinetic Coefficient of Friction is 0.220.

The Oakland Advantage

Meets ASTM & TAPPI

Meets specifications of ASTM D1894 Standard Test Method for Static and Kinetic Coefficients of Friction of Plastic Film.

Advanced Technical Features in Each Model

Fixed sled speed of 6 inches per minute.
Cutting templates available to reduce sample preparation times.
Calibration tools available for in-house system calibration.

Specifications

Model FX-7100 F/W

Mode of operation:	Off-line testing / lab use Digital force measurement
Materials:	All sheet materials
Measurement Range:	0 - 1000 gram
Accuracy:	+/- 0.1% Full Scale
Resolution:	0.2 gram or 0.001 COF Values (unitless)
Safe Overload:	Display shows overrange at 110% of full scale Safe overload at 150% of full scale
Power Requirements:	115 VAC, 60 Hz, or consult factory for special requirements
Environmental Requirements:	40 - 100 Deg. F, max. 96% RH non-condensing
Sample Rate:	7000 Hz
Serial Data Communications:	RS-232 and USB Configurable up to 115,200 baud
Analog Output:	+/- 1 VCD
Dimensions (HxWxD):	9 in (23 cm) x 32 in (81 cm) x 12 in (31 cm)
Weight:	38 lb (17 kg)
Warranty:	3 Years (see individual statement for details)

(Due to continuous product improvement, all specifications are subject to change without notice.)

Upgrade your Model FX-7000 Film Friction Tester to Add the Digital/Firmware Capability of the Model FX-7100 F/W

Options and Accessories

Variable Speed models, peel/seal fixtures, tensile grips, and other accessories available

Standard or custom systems designed to meet specific customer needs

Ordering Information

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