

**COF DS Slip Tester**

**DATA SHEET**

Electronic equipment to determine the coefficients of static friction (initial) and Kinetic friction properties of packaging materials or for other applications such as :

plastic film, aluminum foil, sheet covered with plastic cards and similar surfaces, printed materials, stickers, magnetic cards, screen.

COF DS is equipped with a sophisticated microprocessor for controlling all functions. Measurements and test results are displayed on the touch-screen panel, which allows, in a simple and intuitive way, to set the parameters and perform the necessary changes according to the film to be tested.



COF DS is equipped with a 200 g. movable sledge driven by a high-precision dynamometer system. The absolutely uniform and constant speed of the sledge translation and its total displacement (450 mm) ensure that the sample is tested on its whole length (250 mm).

The friction has two different features, the static friction, relative difficulty to start the motion, and the dynamic friction, which is the difficulty to continue the motion. The coefficient of friction is calculated as the ratio between a force and a mass, and represented by the Greek letter  $\mu$ .

For low contact pressures between two bodies ( i.e. for pressures that do not deform the surface) friction is directly proportional to the normal force acting on the same bodies.

The force needed to obtain sliding is measured by a load cell with a capacity from 2000 g to 3000g.

The device is designed to be connected to a Personal Computer, to print and display the graphics of the curve of the coefficient of friction.

Thanks to the accuracy and repeatability of the results, the device (especially if equipped with the software of analysis) is used: to control quality, studies and researches on the forces of friction between surfaces in the same or in different testing conditions, strictly controlled.



**TECHNICAL FEATURES:**

- Movable sledge driven by a high-precision dynamometric system; dimensions: 63.5 x 63.5 mm; weight of the sledge: 200 g.
- Aluminium support base 200 x 400 mm.
- Measurement of the force necessary to obtain sliding through a 2000 g load cell (standard); precision  $\pm 0.2$  g
- Displacement of the sledge at a uniform and constant speed from 1 to 900 mm / min.
- Stop switch and quick release system of the sledge.
- "Colour touch screen" for a quick selection of all parameters
- Temperature control
- USB output
- Software Windows data link PC ( optional)

**Generals**

- Power: 230V single-phase 50/60Hz 30 VA.
- Overall dimensions: mm 730 x 400 x 250 h
- Weight: kg 30(approx.)

**Reference Standard**

ASTM	D1894
ISO	8295

**Code Description**

10021020	COF DS Slip Tester
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**Optionals**

10021021	Heated bed from Ambient Temp. up to 120° C
10021022	Cooled bed at 0° C, connection to Chiller (chiller is not included - capacity 15 l/min max.)
10021023	Peel attachment for 180° peel test
10021024	Peel attachment for 90° peel test
10021025	Template for cutting test samples
00100112	Software data Link and cable



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