



For an optimised product- and production-control of synthetic films, foils, paper and fabrics, a reliable and efficient film thickness testing instrument is of vital importance.

Our **LEFT 500** gives you a quick, easy and accurate way of measuring the film thickness. **LEFT 500** is used for the thickness measurement of flat films, blown films, compounds, coatings and foam films along and across the film.

This resulted in a testing concept based on mechanical scanning of the film, corresponding to the high requirements and production conditions of film producers and processors.

LEFT 500 is easy to operate and no expert personnel is needed. Specially coated low friction antistatic surfaces with bilateral dust remover allows for the smooth measurement of statically charged and conductive films. The Windows based software offers a variety of evaluation possibilities.

Scope:

Off-line instrument for the determination of thickness and thickness consistency of synthetic films according to DIN 53370 and DIN 55543, their variations in and across the production direction as well as thick and thin places.

Method:

The sample is put onto the film slideway and fed through the measuring system via transport rolls. An inductive sensor with a high level of accuracy and resolution scans the film. Thickness variations are transformed into electronic signals. The length of the film is measured by means of an incremental encoder. The signals are then directly evaluated by the computer. A monitor displays variations of thickness and differences to the nominal value.

Results:

The Windows based software presents the results both graphically and numerically. It offers numerous possibilities for statistical evaluation. Communication of the results is possible via network connection

Measuring range:
10 to 800 µm

Sample width:
Max. 120 mm

Sample length:
Max. 20 m

Repeatability:
< 0.5 µm

Resolution:
0.1 µm

Testing speed:
1 - 8 m/min

Scope of supply:
measurement sensor, film slideway, film transport device, measuring electronics, monitor, keyboard, printer

PC:
PC with Windows® based software, keyboard, mouse and instruments cable

Printer connection:
USB connection

Sensor pressure:
3 weights of 25.5 g, 51 g, 102 g

Scan rate:
(time between two measuring points)
min 0.01 sec
max 10.0 sec

Zero-point:
Set automatically before each measurement or as chosen by the operator

Calibration:
Automatic before each measurement (zero adjustment)
On user's request with a calibration gauge.

Windows® software with the following features:

- Automatic identification of sheet edges
- Zoom function for analysis of specific film segments
- Elimination of peaks and other false thick parts

- Results presentation as average, minimum, maximum, deviations from nominal value as % and absolute values, standard deviation, coefficient of variation, tolerance according to 2 σ, smoothing of the curve, customized test report headings

Dimensions:

Height: 250 mm
Depth: 400 mm
Width: 630 mm
Weight: approx. 40 kg

Export of results:

Serial interface communication with external source

Accessories:

- 1 set of 3 weights to vary the sensor contact pressure
- 25 anti-static dust removers
- 1 calibration gauge

Technical data and pictures are subject to change!

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quality improvement