

**ZIEGLER**

# Data sheet

## FT-1000

Adhesive Peel Tester



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Ziegler-Industrie-Elektronik  
Feldmochinger Str. 412  
80995 Munich, Germany  
[info@ziegler-tec.de](mailto:info@ziegler-tec.de)

easy to use – precise measurements

## Product description

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The FT-1000 adhesive peel tester is customized to the requirements of manufacturers, processors and users of adhesive composite materials and its specifications correspond to the test standards of FINAT \* and AFERA \*\*.

Support of the FINAT test methods No. 1, 2, 3, 9, 10 and 11.

\* Fédération internationale des fabricants et transformateurs d'adhésifs et thermocollants sur papiers et autres supports

\*\* Afera, the European Association for the Self Adhesive Tape Industry



### Options for testing

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The following tests of the properties of pressure-sensitive adhesives and adhesive composite materials are supported:

#### FINAT FTM 1

Measurement of the peel strength at a peel angle of 180 ° with a pulling speed of 300 mm / min.

#### FINAT FTM 2

(Optional for surcharge)

Measurement of the peel strength at a peel angle of 90 ° with a pulling speed of 300 mm / min.

#### FINAT FTM 3

Measurement of the separation force at a peel angle of 180 ° with a pulling speed of 300 mm / min.

#### FINAT FTM 9

(Option for surcharge)

"Quick-Stick" initial adhesion

#### FINAT FTM 10 and 11

Measurement of the release force and residual adhesive force for silicone-coated self-adhesive materials

#### Testable materials

- Rub-on foils
- Adhesive foils
- Adhesive tapes with release material
- Adhesives
- Labels
- Self-adhesive films

- Fuse sticker
- Sealing material
- Packaging tapes made of paper, plastic, textile and metal as well as materials with related properties.

**Operating principle**

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The device is designed as a horizontal tensile testing machine. The sample table is equipped as a movable clamp with constant feed, while the fixed clamp is rigidly coupled to the load cell.

This can be used to measure properties such as separation force and peel strength, e.g. at a peel angle of 180 ° or 90 ° (option).

**Technical specifications**

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**Force measurement**

The bond strength tester is equipped with two highly sensitive strain gage load cells in the measuring ranges 5 and 50 N.

**Drive**

The sample table is driven by an electronically tacho-controlled, long-life precision direct current (DC) motor.

The standard pulling speed is 300 mm / min, 50/300/1000 and 60 - 990 mm / min can be selected from the front.

**Force display**

The determined average pulling force is shown on the display of the measuring device. Reading accuracy.

Messbereich 5 N, 0,001 N

Messbereich 50 N, 0,01 N

**Accuracy**

Force measurement: < 1% vom

Display value: +/- 2 Digits

Speed: < 2% of the selected speed

**Connection, dimensions and weight**

<b>Voltage:</b>	100 - 240V/50 - 60 Hz/30VA
<b>L x W x H:</b>	410 x 280 x 140 mm
<b>Weight:</b>	ca. 8,0 kg
<b>Connection:</b>	USB-port

## Options and accessories

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### Integrated

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- 50, 300, 1000 mm / min
- 60 - 990 mm / min
- 2-channel version
- 5 N and 50 N load cells
- Sample plate float glass 200 x 100 x 2 mm
- Stainless steel sample plate
- VA 200 x 100 x 2 mm
- FTSOFT software for data acquisition, graphic display, evaluation, storage and printing, individual measurement reports and Excel export.

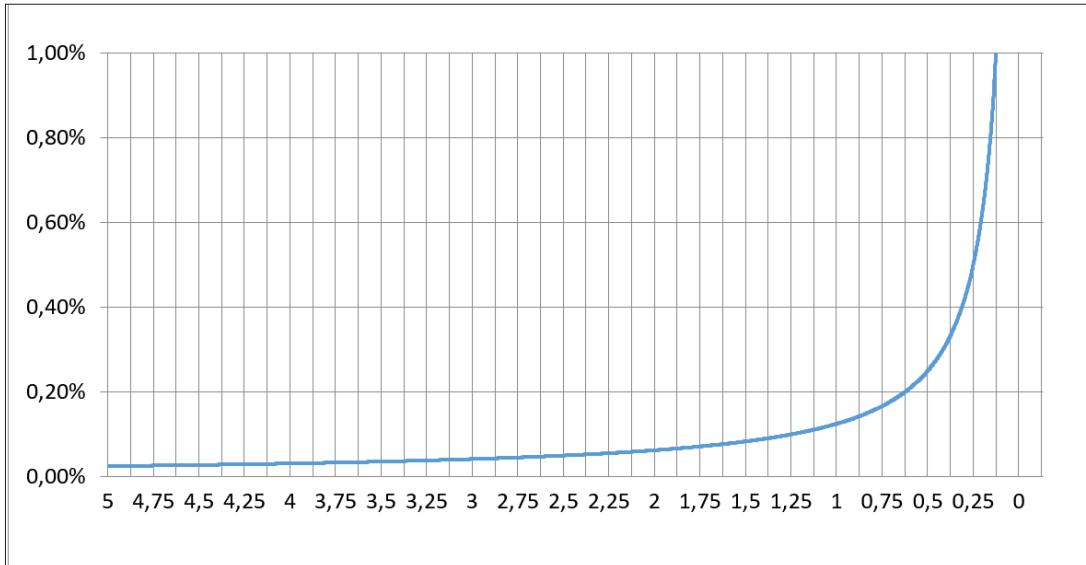
### Optional for surcharge

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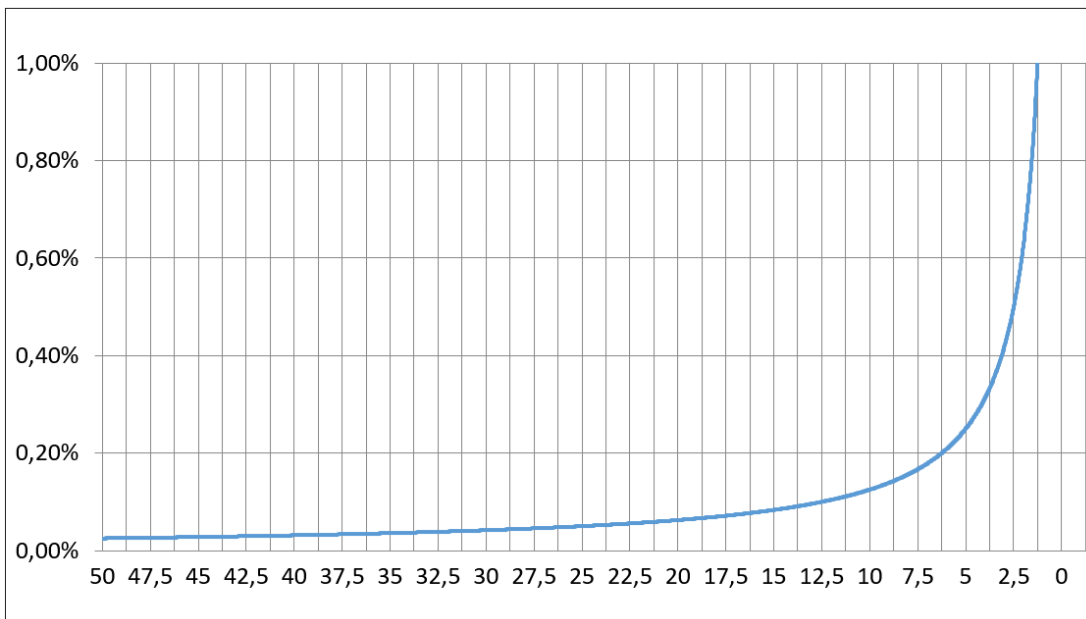
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- FINAT pressure roller 2 kg
- "Quick-Stick" Initial Adhesion
- 90° peel-off
- Foil holders
- Paper clamp
- Options and accessories for customization

## Display Accuracy



Use of 5 N load cell = 0,25 N–5 N at accuracy +/- 1 %, resolution single measurement values = 0,00125 N



Use of 50 N load cell = 0,25 N–50 N at accuracy +/- 1 %, resolution single measurement values = 0,0125 N

## Your benefits at a glance

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- Horizontal working method - no influence from the tare weight of the test object
- Uncomplicated operation of the device
- Not a universal device. It is specially designed for adhesive strength measurements of the various standards.
- No complex modifications for different measuring methods
- No effect on the measuring circuit through modifications such as pulleys etc.
- 2 measuring cells, 5N and 50N, for increased accuracy
- Speeds from 10 - 1000 mm / min (steps of 10 mm / min)
- Zero point adjustment by pressing a button
- Space-saving dimensions of 40cm x 20 cm
- Mobility - practical for changing workplaces or with customers
- Weight of the tester 8 kg
- Waterproof transport case
- The device can be operated with or without software
- Very low energy costs - idle 1.5 watts, maximum load 20 watts
- Solid metal construction, no plastic parts

### Software FTSOFT

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- Intuitive use of the software
- No training period for workers
- The software is compatible with any PC or notebook (32- and 64-bit versions of Windows® 10-11)

## Guarantee

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The manufacturer's guarantee is 2 years.

## Manufacturer and copyright

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ZIEGLER Industrie-Elektronik

Josef Ziegler

Feldmochinger Str. 412

80995 Munich, Germany

Tel.: +49 89 3131760

FAX: +49 89 3130621

Email: [info@ziegler-tec.de](mailto:info@ziegler-tec.de)

Internet: [www.ziegler-tec.de](http://www.ziegler-tec.de)

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