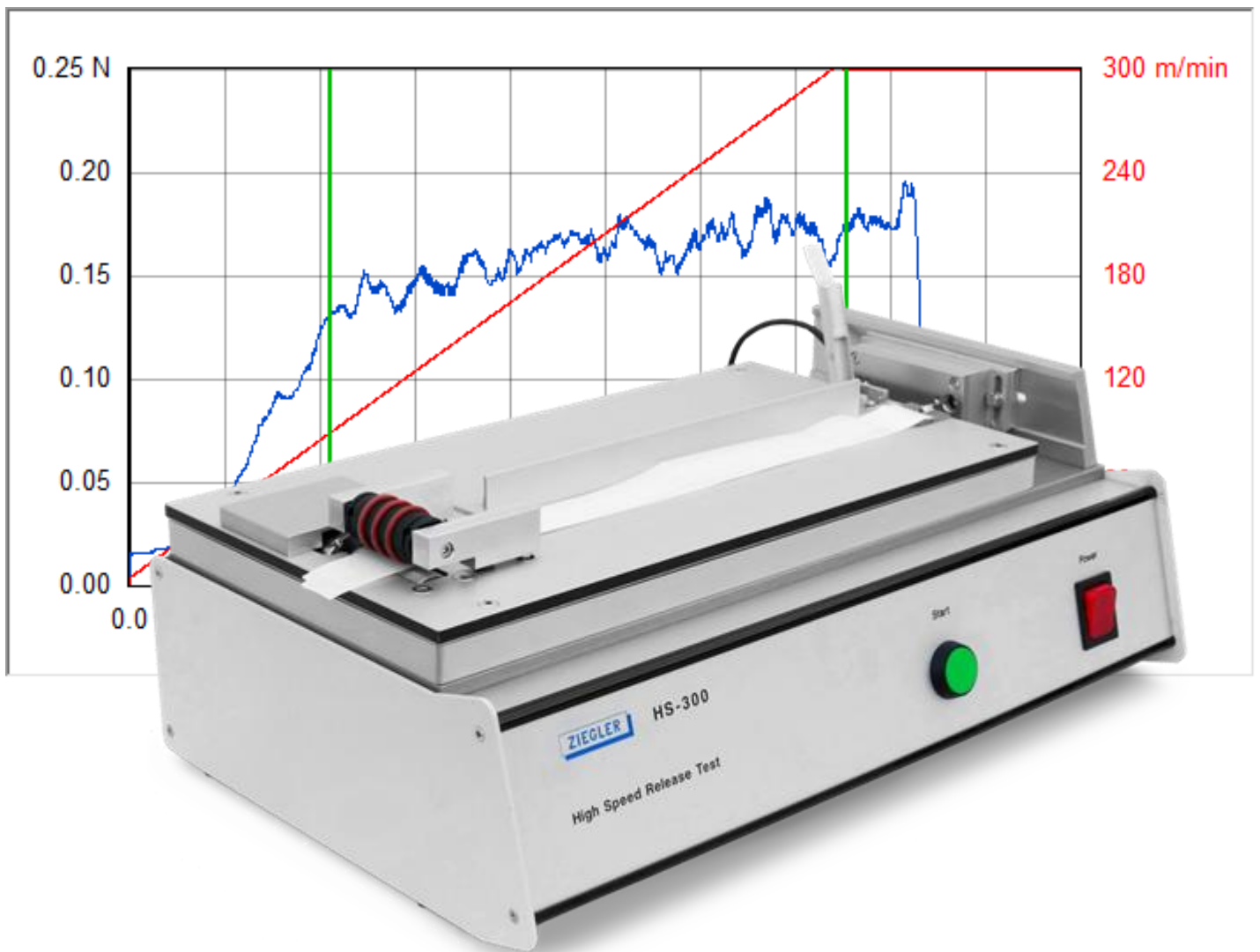


ZIEGLER High Speed Release Tester

HS-300



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The High Speed Release Tester is designed as horizontal pulling test device according to FINAT test FTM – 4 - high speed release force.

This procedure allows the evaluation of the separation force of a laminate at a separation speed comparable to those typically used in label production and mechanical dispense. It gives a meaningful assessment of the processing quality of labels. Very low values can cause a premature release of the labels during the creation or dispensing process. High values may produce web break when skeleton stripping die cut labels or dispensing failure during automatic application.

Technical Specifications

Force Measurement

- Highly sensitive short distance force transducer (load cell) with a measuring range of 10 N

Drive

- High-grade brushless motor with Hall effect sensor
- Adjustable peel speed of up to 300 m/min, equal to 5 m/s
- Speed ramp 10 – 300 m/min

Force Indicator

- Determined tensile force is displayed in the HighSpeedSoft software as graph and evaluation

Accuracy

- Reading accuracy < 1% of the display value
- Measuring range 10 N, resolution 0,002 N
- Speed < 2% of the selected speed

Connection, Dimension and Weight

- Operating voltage: 100 - 240 V/50 - 60 Hz
- Power input: 100 VA
- Protection: 2 x 4 AT (5 x 20 mm fine-wire fuses)
- Dimensions: Width 400 x Depth 260 x Height 200 mm
- Weight 5.8 kg
- Data connection: USB port

Measured Data Acquisition

The **HighSpeedSoft** Data Acquisition Software is a tool, which reliably and comfortably automates the analysis, the logging and saving of data with the ZIEGLER High Speed Tester HS-300.

- Software **HighSpeedSoft** fully compatible with Windows® XP, 7, 8 and Windows 10 (32-bit and 64-bit versions)
 - Data acquisition
 - Graphic display
 - Analysis
 - Storage
 - Printing
 - Individual measurement protocol
 - Export to Excel
 - Individual customization available on request
 - High degree of comfort when working with your data
- Selection of Measurement Speed:
- Fixed, constant speed** - (10m – 300 m/min)
When the motor has reached the selected speed, the material is pressed against the drive roller and is pulled off.
- Ramp** - 10 m – 300 m/min
Material is pressed down and the motor increases the speed during the pulling off of the material.
- Clear and intuitively arranged menus reduce the training period to a minimum
 - Fast data transfer
 - Well-structured measurement log with graphical display
 - Less storage space (2-3 MB)
 - The program allows for individual, multiple and consecutive measurements

Samples

- Sample length: 600 mm approx.
Sample width: 25 mm
Pull-off length: 250 mm max. (standard)

Areas of Application

High Speed Release Testers are being employed by:

- Manufacturers of adhesives, composite materials, self-adhesive materials and separating agents
- Processors and refiners of said materials
- Users of the resultant products

Peel force testers are employed in the research and development of material characteristics, the formulation and product design. They serve as quality verification for:

- Production monitoring and quality control
- Sustainability certificates for storage
- Outgoing and incoming goods inspection by the producer, refiner and user

Measurements are carried out:

- For quality control
- In case of complaints
- For production control
- For control over a fixed time period or under specified conditions
- For control of materials after storage but before production
- Inspection of impacts of chemical nature, UV, warmth and cold

Guarantee

2 years