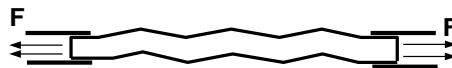


## MRP - Messen Regeln Prüfen Automatisierungstechnik

### Description



### MRP-ST LAB TST 2015 - tensile strength for MRP-Schnettler automatic test line

#### Laboratory tensile strength measurement

The tensile strength is carried out at MRP - Schnettler with the module MRP-ST LAB TST 2015. Here TST stands for Tensil Strength Tester. It can be determined in CD and MD direction depending on the requirements. For this purpose a punch cuts a 15mm wide strip, depending on the desired evaluation direction.

#### Indicator / Characteristics

The tensile strength measurement in the automatic test line is characterized by the following features:

- destructive measurement
- good repeatability

#### Physical principle

The cut sample strip is held firmly at the beginning and end by two hold-down devices. In the middle, an electric cylinder with an attached load cell presses against the paper.

During this process the force/displacement measured values are recorded cyclically. The measured values of interest are calculated from these.

#### Recorded measured values and statistics

- Tensile strength
- Elongation
- Elongation at break
- maximum breaking force
- Tear length
- standard deviation, depending on your requirements as 1S, 2S, 3S available.
- Coefficient of variation
- Maximum and minimum values of the measurement series

#### Correlated procedure according to the following standards

- ISO 1924-2 I-3
- Tappi T494

#### Measurement accuracy

Type	MRP-ST LAB TST 2015
Measuring range	Depending on the Load cell
accuracy - 2 sigma at 1 sec	0.5% of the display value
Operating temperature	10°C-50°C

MRP Automation Technology GmbH  
Otto-Lilienthal-Str. 2  
D-56751 Polch

Schnettler Technologies  
Wilhelm-Ruppert-Str. 38

D-51147 Cologne

Phone: +49(0)2654 88091-0  
Fax: +49(0)2651 88091-299  
e-mail: [info@mrp-at.de](mailto:info@mrp-at.de)  
Internet: [www.mrp-at.de](http://www.mrp-at.de)

Phone: +49 (0) 2203 9618948  
Mobile: +49 (0) 179/7643074

e-mail: [info@schnettler-technologies.de](mailto:info@schnettler-technologies.de)  
Internet: [www.schnettler-technologies.de](http://www.schnettler-technologies.de)