Elastocon®

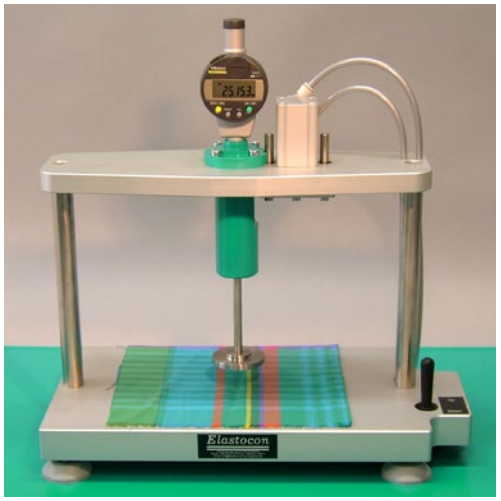
Thickness gauges

with optional computer connection

Thickness gauge EV 01 for thickness measurement according to ISO 23529 and compression set measurement according to ISO 815.

Thickness gauge EV 01 F is a special version, with the possibility to set the parallelity between measuring foot and table.

Thickness gauge EV 06 for thickness measurement according to ISO 5084 for textiles.



Pneumatic thickness gauge EV 07 for thickness measurement according to ISO 5084 for textiles.

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Technical specifications, thickness gauges

The equipment is intended for thickness measurements according to ISO 23529 for rubber or ISO 5084 for textiles and for compression set testing according to ISO 815 as well as other technically equivalent standards.

If equipped with the optional accessory EV 01.04 interface kit, for connection to EC 02 software (also an optional accessory), the values can be collected from the connected instrument and the results can be printed per material as a trend graph together with statistics.

The thickness gauge includes

- **Digital Gauge** modified for correct measuring pressure for rubber, plastic or textile testing
- **10 mm gauge block**
- **Spindle lifting handle**
- **Measuring foot**
- **Weight** for thickness measurements.
- **Stand**, of stable construction, with the possibility of fine adjustments of the height

Optional accessories

- **Interface kit USB, EV 01.04**, including cable and foot pedal, for connection to EC 02.
- **Interface kit USB, EV 01.05**, including cable and foot pedal, for transfer to a spreadsheet software.
- **Software EC 02** for Windows computers, for thickness measurements and calculations of compression set. The program collects the values from the connected instrument. The data is stored per material and new measurements are added to existing material profiles, thus avoiding the risk of mixing up the results. The results can be printed per material as a trend graph together with statistics.

The following thickness gauges and accessories can be supplied

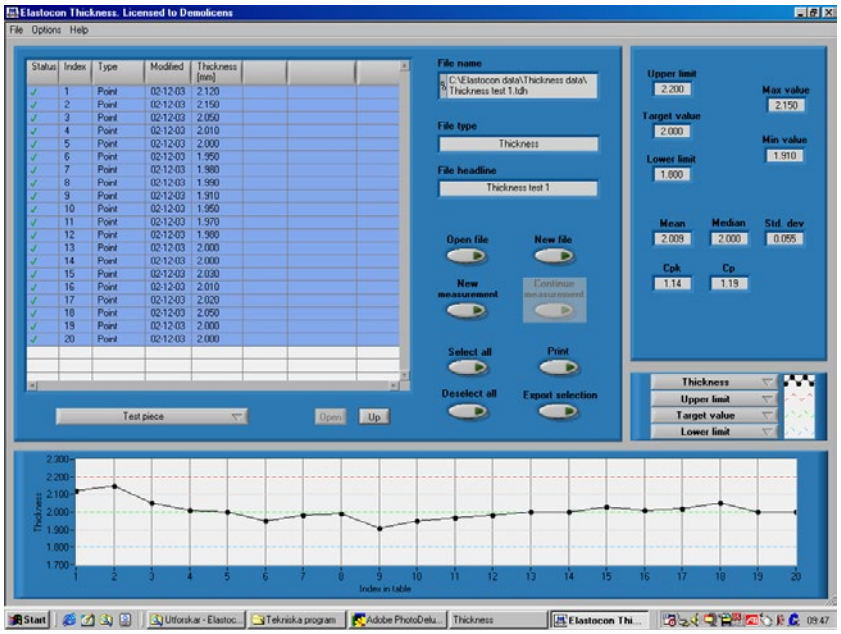
Type	Use	Resolution, mm	Accuracy, mm	Foot pressure*, kPa	Foot diameter*, mm	Range, mm
EV 01B	Rubber and plastic samples	0,001	± 0,003	22	4,3	12
EV 01B-25	Rubber and plastic samples	0,001	± 0,003	22	4,3	25
EV 01F	Thin samples, such as condoms and plastic film	0,001	± 0,003	22	10	12
EV 06A 0,1	Textile samples	0,01	± 0,03	0,1	50,5	12
EV 06B	Textile samples	0,001	± 0,005	0,5 or 1	50,5	12
EV 07B	Pneumatic, for textile samples	0,001	± 0,005	1	50,5	25
EC 02	Software for thickness and compression set measurements (optional accessory)					
EV 01.04	Interface kit USB, including cable and foot pedal, for connection to EC 02 software (optional accessory)					
EV 01.05	Interface kit USB, including cable and foot pedal, for transfer to a spreadsheet software (optional accessory)					

** Other diameters and foot pressures can be supplied on request.*

ELASTOCON reserve the right to modify these specifications in part or in whole.

Thickness software, EC 02

Optional accessory to thickness gauges

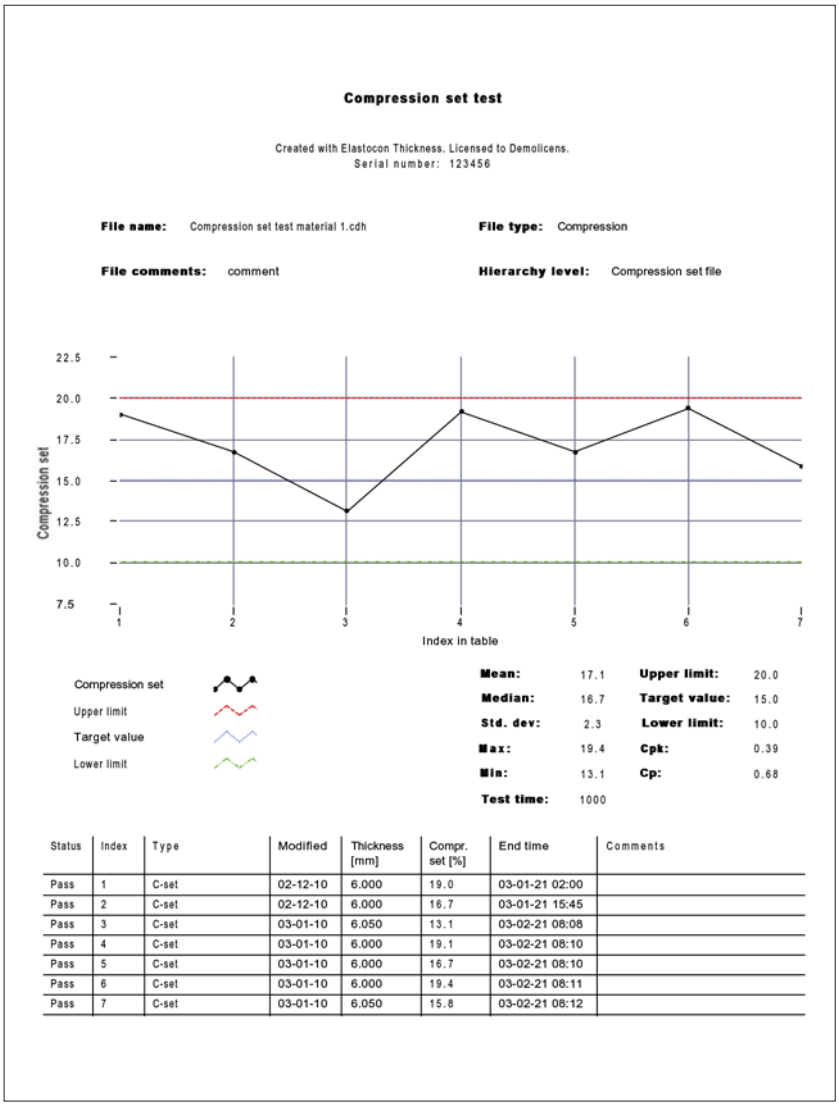


Thickness software EC 02. The thickness software can be connected to Mitutoyo gauges, and is used for thickness measurements and calculations of compression set.

For compression set tests the *end time* is calculated from the start date and duration of the test. A reminder note can also be printed.

A material profile is created for each material with limits and target value. The data is stored per material and new measurements are added to existing material profiles.

The software collects the values from the connected instrument and plots a trend graph together with statistics. The results can be printed per material.



Compression set test

Created with Elastocon Thickness. Licensed to Demolicens.
Serial number: 123456

File name: Compression set test material 1.cdh
File type: Compression
File comments: comment
Hierarchy level: Compression set file

Compression set
Index in table

Compression set
Upper limit
Target value
Lower limit

Mean:	17.1	**Upper limit:**	20.0
Median:	16.7	**Target value:**	15.0
Std. dev:	2.3	**Lower limit:**	10.0
Max:	19.4	**Cpk:**	0.39
Min:	13.1	**Cp:**	0.68
Test time:	1000		

Status	Index	Type	Modified	Thickness [mm]	Compr. set [%]	End time	Comments
Pass	1	C-set	02-12-10	6.000	19.0	03-01-21 02:00	
Pass	2	C-set	02-12-10	6.000	16.7	03-01-21 15:45	
Pass	3	C-set	03-01-10	6.050	13.1	03-02-21 08:08	
Pass	4	C-set	03-01-10	6.000	19.1	03-02-21 08:10	
Pass	5	C-set	03-01-10	6.000	16.7	03-02-21 08:10	
Pass	6	C-set	03-01-10	6.000	19.4	03-02-21 08:11	
Pass	7	C-set	03-01-10	6.050	15.8	03-02-21 08:12	

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