

Elastocon

Elastometer, EF 02

- For compression tests on profiles
- For discontinuous stress relaxation tests



Relaxation test jig

The test jigs for stress relaxation are simple in design but made with very high accuracy regarding surface finish and parallelism of the platens.

The discontinuous stress relaxation system has an economical advantage when many materials are to be tested during very long times.

The instrument is a specialised compression tester controlled by a PC. The software permits several types of tests to be performed, such as:

- discontinuous stress relaxation tests according to ISO 3384 method B.
- standard compression tests to measure modulus, such as in ISO 7743,
- customer specified tests on products like O-rings and profiles.

The results can be expressed in different ways:

- for stress relaxation as absolute force, relative force, F/F_0 , against time
- for compression tests as MPa, N, and N/mm length.
- for O-rings the result is expressed as N/mm average circumference.

The very accurate compression results are obtained due to the high accuracy in the displacement measurement, which includes a compensation for deformation in the load cell and in the instrument.

If equipped with the optional oven, test can be performed from -40 °C to 200 °C. This means that relaxation tests according to ISO 3384 method A can be performed when using the oven. The precision of tests made according to Method B is also improved at 23 °C, if the oven is used.

A container for testing in liquids is also available.

Computer included.

Technical specification, Elastometer EF 02

Force range: N	0 -1 000 (alternatively 200 or 2 000)
Force resolution: N	0,01
Force accuracy: N	0,1 (0,01, 0,2)
Displacement range: mm	100
Displacement resolution: mm	0,0005
Displacement accuracy: mm	0,001
Transport speed: mm/min	0,01 -1 500
Testing speed: mm/min	0,01-500
Compression plate; mm	dia 110

Materials:

Compression plates:	Stainless steel
Compression rig:	Zinc-coated steel, stainless steel and aluminium
Casing	Powder painted steel
Size, w x d x h, mm	500 x 370 x 870
Weight: kg	52

PC-Computer, Pentium,

mini case 3,0 GHz, 512 MB RAM, 40 GB HD, 52 CD-ROM,
network board, 17 " Flat TFT monitor 768 x 1024 and WIN XP Pro.



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