

Elastocon

Elastometer, EF 02

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

Stress relaxation test jig

The bottom compression platen has a small hole for a temperature sensor. The two threaded holes, one on the front side and one on the top allow for lifting or moving the jig with a lifting tool.



The test jigs for stress relaxation are simple in design, but the manufacturing meets high standards regarding finishing and parallelism of the platens. The discontinuous stress relaxation system has an economical advantage when many materials are to be tested during very long periods.



The instrument is a specialised PC-controlled compression tester. Computer included.

The software permits the performance of several types of tests, 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 displayed in different ways:

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

Very accurate compression results are obtained through the high accuracy of the displacement measurement, which includes a compensation for deformation in the load cell and in the instrument.

When equipped with the optional temperature chamber, one can perform tests in temperatures from -28°C to $+200^{\circ}\text{C}$. This means that relaxation tests according to ISO 3384 method A, can be performed when using this chamber.

Testing at 23°C , according to Method B is also improved, when using the chamber. Further an optional container for testing in liquids is available.

Tel. + 31 (0)73 6395080

E-mail info@artec.nl

Fax + 31 (0)73 6314625

Web www.artec.nl

KVK 20089339

BTW NL226577338B01



Technical specifications

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

Power: W 60
Voltage: V/Hz 220-240/50

Instrument:
Dimensions - w x d x h: mm 500 x 370 x 870
Weight: kg 52

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

**specifications may change in time.*

Materials

Compression plates: Nickel plated steel
Compression rig: Steel, stainless steel and aluminium
Casing: Powder painted steel