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Welcome to Elastocon's  
**web conference**

March 15–17 2022

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**Testing with precision**

# Testing with precision

## Instruments for material testing



1. Our own instruments
2. Companies we represent

## Accredited calibration



## Our calibration lab is accredited by Swedac for:

- Length • Mass • Temperature
- Force • Pressure • Hardness
- Elongation • Speed

## Accredited Testing Services



- ISO 34-1 Tear strength
- ISO 37 Tensile stress-strain properties
- ISO 48-2 Hardness IRHD
- ISO 48-4 Hardness Shore
- ISO 188 Accelerated ageing and heat resistance
- ISO 815-1 Compression Set
- ISO 815-2 Low Temperature Compression Set
- ISO 1432 Low-temperature stiffening (Gehman test)
- ISO 1817 Resistance to liquids
- ISO 2781 Density
- ISO 2921 Low-temperature retraction (TR test)
- ISO 3384-1 Stress relaxation in compression
- ISO 3384-2 Cycling relaxation in compression
- ISO 6914 Ageing characteristics by measurement of stress relaxation in tension
- ISO 11346 Estimation of life-time and maximum temperature of use

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Instruments we have in our laboratory for demonstration and testing, acquired in later years:

- Electrical volume- and surface resistivity
- Heat conductivity
- FTIR for Polymer identification
- DSC for melting points of plastics
- TGA for composition of polymers
- XRF for analysing inorganic materials
- Impact tests on plastics, Sharpy Izod
- Melt Flow tester for thermoplastics
- Tensile, 10 kN tester with attachments for
  - friction, flexural tests and
  - puncture test for plastic film
- Hazemeter for transmittance and diffraction
- Laboratory press for sample preparation
- Slitting machine for sample preparation
- Climate and temperature chamber, -70°C – 180°C
- Abrasion tester
- Microscopes
- Weathering instruments
- Identipol for characterisation of thermoplastics
- Lupke pendulum for rebound resilience

# Capacity for Stress Relaxation tests

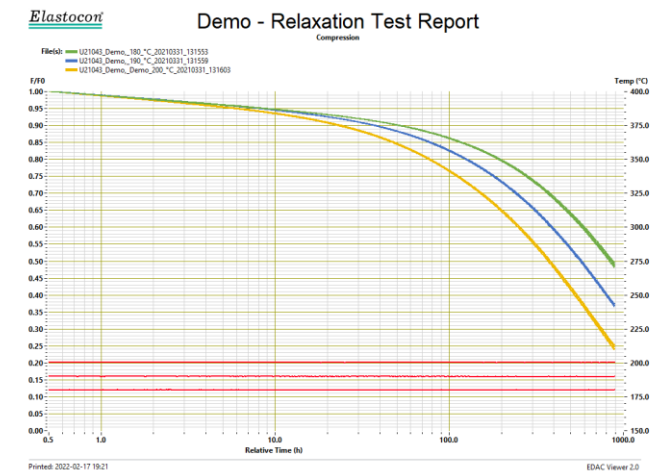
## Tests in compression

- 4 materials for 23°C
- 2 materials for 40°C to 200°C
- 6 materials for 40°C to 300°C
- 6 materials for 40°C to 350°C
- 8 materials for 23°C to 300°C, cycling tests
- 2 materials for 40°C to 150°C, in liquids
- 4 materials for -40°C to 245°C, cycling tests
- 1 material for 40°C to 150°C, ALE test



## Tests in tension

- 2 materials for 40 to 200°C
- For all tests 3 test pieces are used



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