



International
Standard

ISO 18636

**Rubber or plastic coated fabrics —
Mechanical properties —
Determination of the elongation
under load and the residual
deformation**

*Supports textiles revêtus de caoutchouc ou de plastique —
Propriétés mécaniques — Détermination de l'allongement sous
charge et de la déformation résiduelle*

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Foreword

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This document was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 4, *Products (other than hoses)*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 248, *Textiles and textile products*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Rubber or plastic coated fabrics — Mechanical properties — Determination of the elongation under load and the residual deformation

1 Scope

This document specifies the method for determination of the elongation under load and the residual deformation of coated fabrics.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1419:2019, *Rubber- or plastics-coated fabrics — Accelerated-ageing tests*

ISO 2231, *Rubber- or plastics-coated fabrics — Standard atmospheres for conditioning and testing*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Principle

Marked strips of coated fabric are loaded for a specified duration; then after relaxation, the residual deformation is calculated based on the measurements of the distance between the marks of the strip before and after the loading stage. The appropriate testing parameters are based on the use of the coated fabrics.

Test specimen can be aged by heat exposure prior to the loading stage.

5 Apparatus

5.1 Ruler, calibrated metal ruler with 0,5 mm graduated marks.

5.2 Calliper, calibrated to 0,1 mm.

5.3 Loading device

Only a manual loading device shall be used. An automatic device shall be avoided because of the force regulation of the machine.

The clamping devices shall be positioned with the centre in line with the applied force.