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Standards

Irish Standard  
I.S. EN ISO 20932-1:2020

# Textiles - Determination of the elasticity of fabrics - Part 1: Strip tests (ISO 20932-1:2018)

**I.S. EN ISO 20932-1:2020**

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## National Foreword

I.S. EN ISO 20932-1:2020 is the adopted Irish version of the European Document EN ISO 20932-1:2020, Textiles - Determination of the elasticity of fabrics - Part 1: Strip tests (ISO 20932-1:2018)

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**EUROPEAN STANDARD**

**EN ISO 20932-1**

**NORME EUROPÉENNE**

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Supersedes EN 14704-1:2005

English Version

## **Textiles - Determination of the elasticity of fabrics - Part 1: Strip tests (ISO 20932-1:2018)**

Textiles - Détermination de l'élasticité des étoffes -  
Partie 1: Essais sur bande (ISO 20932-1:2018)

Textilien - Bestimmung der Elastizität von textilen  
Flächengebilden - Teil 1: Streifenprüfungen (ISO  
20932-1:2018)

This European Standard was approved by CEN on 11 November 2019.

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**EN ISO 20932-1:2020 (E)**

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## **European foreword**

The text of ISO 20932-1:2018 has been prepared by Technical Committee ISO/TC 38 "Textiles" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 20932-1:2020 by Technical Committee CEN/TC 248 "Textiles and textile products" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2020, and conflicting national standards shall be withdrawn at the latest by August 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14704-1:2005.

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## **Endorsement notice**

The text of ISO 20932-1:2018 has been approved by CEN as EN ISO 20932-1:2020 without any modification.

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# INTERNATIONAL STANDARD

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20932-1**

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## **Textiles — Determination of the elasticity of fabrics —**

### **Part 1: Strip tests**

*Textiles — Détermination de l'élasticité des étoffes —*

*Partie 1: Essais sur bande*



Reference number  
ISO 20932-1:2018(E)

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**ISO 20932-1:2018(E)**



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## ISO 20932-1:2018(E)

### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 24, *Conditioning atmospheres and physical tests for textile fabrics*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

A list of all parts in the ISO 20932 series can be found on the ISO website.

## **Introduction**

This document was developed as a result of technical advancements in yarn and fabric structures and properties, which increase product range and developments.

This document is based on EN 14704-1[1].



# Textiles — Determination of the elasticity of fabrics —

## Part 1: Strip tests

### 1 Scope

This document describes the methods of test using strips of fabric in straight strip form or as loops, which can be used to measure elasticity and related properties of fabrics, excluding narrow 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 139, *Textiles — Standard atmospheres for conditioning and testing*

ISO 4915, *Textiles — Stitch types — Classification and terminology*

ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system*

ISO 10012, *Measurement management systems — Requirements for measurement processes and measuring equipment*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <http://www.electropedia.org/>

#### 3.1

##### **narrow fabric**

woven or knitted construction intended for use as a trim, binding, edging, strapping or harness, and designed to be used in its full width

#### 3.2

##### **elasticity**

<material> ability to recover original size and shape immediately after the removal of the force causing deformation

#### 3.3

##### **constant-rate-of-extension testing machine**

##### **CRE testing machine**

tensile testing machine provided with one clamp, which is stationary, and another clamp, which moves with a constant speed throughout the test, the entire testing system being virtually free from deflection

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