

**SLOVENSKI STANDARD
SIST EN ISO 4674-2:2021****01-december-2021****Nadomešča:****SIST EN ISO 4674-2:1999**

**Gumirane ali plastificirane tekstilije - Ugotavljanje odpornosti proti trganju - 2. del:
Metoda padajočega nihala (ISO 4674-2:2021)**

Rubber- or plastics-coated fabrics - Determination of tear resistance - Part 2: Ballistic pendulum method (ISO 4674-2:2021)

Mit Kautschuk oder Kunststoff beschichtete Textilien - Bestimmung der Weiterreifestigkeit - Teil 2: Verfahren mit ballistischem Pendel (ISO 4674-2:2021)

Supports textiles revtus de caoutchouc ou de plastique - Dtermination de la rsistance au dchirement - Partie 2: Mthode au pendule balistique (ISO 4674-2:2021)

Ta slovenski standard je istoveten z: EN ISO 4674-2:2021**ICS:**

59.080.40 Površinsko prevlečene tekstilije Coated fabrics

SIST EN ISO 4674-2:2021**en,fr,de**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4674-2

October 2021

ICS 59.080.40

Supersedes EN ISO 4674-2:1998

English Version

Rubber- or plastics-coated fabrics - Determination of tear resistance - Part 2: Ballistic pendulum method (ISO 4674-2:2021)

Supports textiles revêtus de caoutchouc ou de plastique - Détermination de la résistance au déchirement - Partie 2: Méthode au pendule balistique (ISO 4674-2:2021)

Mit Kautschuk oder Kunststoff beschichtete Textilien - Bestimmung der Weiterreißfestigkeit - Teil 2: Verfahren mit ballistischem Pendel (ISO 4674-2:2021)

This European Standard was approved by CEN on 31 August 2021.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN ISO 4674-2:2021) has been prepared by Technical Committee ISO/TC 45 "Rubber and rubber products" in collaboration with 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 April 2022, and conflicting national standards shall be withdrawn at the latest by April 2022.

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 ISO 4674-2:1998.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO 4674-2:2021 has been approved by CEN as EN ISO 4674-2:2021 without any modification.

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INTERNATIONAL
STANDARD

ISO
4674-2

Second edition
2021-10

**Rubber- or plastics-coated fabrics —
Determination of tear resistance —**

**Part 2:
Ballistic pendulum method**

Supports textiles revêtus de caoutchouc ou de plastique —

Détermination de la résistance au déchirement —

Partie 2: Méthode au pendule balistique

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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).

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).

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

For an explanation of 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 www.iso.org/iso/foreword.html.

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).

This second edition cancels and replaces the first edition (ISO 4674-2:1998), which has been technically revised. The main changes compared with the previous edition are as follows:

- in [Clause 5](#), the title has been changed to “Apparatus and reagents” and [5.3](#), [5.4](#), and [5.5](#) have been added;
- in [Clause 6](#), the title has been changed to “Sampling and preparation of test pieces” and [Clause 5](#) has been integrated;
- in [Clause 7](#), the test duration has been specified;
- in [Clause 8](#), the title has been changed to “Atmosphere for conditioning and testing” and [8.2](#) has been added;
- in [Clause 9](#), the wet test has been specified.

A list of all parts in the ISO 4674 series can be found on the ISO website.

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.

Introduction

Tearing is amongst the more usual ways of destruction for many thin materials such as paper, coated or uncoated textiles, plastics films and leather. Knowledge of the resistance of these materials to this type of behaviour is therefore very important.

In practice, tearing can result from very different circumstances; hence the large number of test methods that have been developed in order to predict the behaviour of materials in various situations.

The ISO 4674 series deals with initiated tearing, i.e. the propagation of a tear from an initiating cut. It consists of the following two parts:

- *Part 1: Constant rate of tear methods*
- *Part 2: Ballistic pendulum method*

ISO 4674-1 describes two methods using a tensile-testing machine at constant rate of elongation.

This document describes a dynamic method using the kinetic energy of a falling pendulum.

Other methods, e.g. the “wounded burst test”, are under consideration as possible further parts.

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