



SLOVENSKI STANDARD
SIST EN ISO 4674-1:2003

01-december-2003

Gumirane ali plastificirane tekstilije - Ugotavljanje utržne trdnosti – 1. del: Metode trajnega razmerja trganja (ISO 4674-1:2003)

Rubber- or plastics-coated fabrics - Determination of tear resistance - Part 1: Constant rate of tear methods (ISO 4674-1:2003)

Mit Kautschuk oder Kunststoff beschichtete Textilien - Bestimmung der Weiterreißfestigkeit - Teil 1: Verfahren mit konstanter Geschwindigkeit (ISO 4674-1:2003)

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Supports textiles revetus de caoutchouc ou de plastique - Détermination de la résistance au déchirement - Partie 1: Méthodes à vitesse constante de déchirement (ISO 4674-1:2003)

Ta slovenski standard je istoveten z: EN ISO 4674-1:2003

ICS:

59.080.40 Ú[ç|zã • \ [Á | ^ ç | ^ ^ } ^ Coated fabrics
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 4674-1

September 2003

ICS 59.080.40

English version

**Rubber- or plastics-coated fabrics - Determination of tear
resistance - Part 1: Constant rate of tear methods (ISO 4674-
1:2003)**

Supports textiles revêtus de caoutchouc ou de plastique -
Détermination de la résistance au déchirement - Partie 1:
Méthodes à vitesse constante de déchirement (ISO 4674-
1:2003)

Mit Kautschuk oder Kunststoff beschichtete Textilien -
Bestimmung der Weiterreißfestigkeit - Teil 1: Verfahren mit
konstanter Geschwindigkeit (ISO 4674-1:2003)

This European Standard was approved by CEN on 7 August 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 4674-1:2003 (E)

CORRECTED 2003-10-01

Foreword

This document (EN ISO 4674-1:2003) 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 March 2004, and conflicting national standards shall be withdrawn at the latest by March 2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 4674-1:2003 has been approved by CEN as EN ISO 4674-1:2003 without any modifications.

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NOTE Normative references to International Standards are listed in Annex ZA (normative).

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Annex ZA (normative)

Normative references to international publications with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 1421	1998	Rubber- or plastics-coated fabrics - Determination of tensile strength and elongation at break	EN ISO 1421	1998
ISO 2231	1989	Rubber- or plastics-coated fabrics - Standard atmospheres for conditioning and testing	EN ISO 2231	1995
ISO 2286-1	1998	Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 1: Methods for determination of length, width and net mass	EN ISO 2286-1	1998

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INTERNATIONAL
STANDARD

ISO
4674-1

First edition
2003-09-01

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

**Part 1:
Constant rate of tear methods**

*Supports textiles revêtus de caoutchouc ou de plastique —
Détermination de la résistance au déchirement —*

Partie 1: Méthodes à vitesse constante de déchirement

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ISO 4674-1:2003(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 4674-1 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 4, *Products (other than hoses)*.

Together with part 2 (see below), this part of ISO 4674 cancels and replaces ISO 4674:1977, which has been technically revised.

ISO 4674 consists of the following parts, under the general title *Rubber- or plastics-coated fabrics — Determination of tear resistance*:

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

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Introduction

Tearing is amongst the more usual ways of destruction for many thin materials such as paper, coated or uncoated textiles, plastic 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 present International Standard 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.

The first part describes two methods using a tensile-testing machine at constant rate of elongation. The second part describes a dynamic method using the kinetic energy of a falling pendulum.

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