

Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 3: Method for determination of thickness (ISO 2286-3:2016)

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 2286-3:2016 sisaldab Euroopa standardi EN ISO 2286-3:2016 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 2286-3:2016 consists of the English text of the European standard EN ISO 2286-3:2016.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 05.10.2016.	Date of Availability of the European standard is 05.10.2016.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile [standardiosakond@evs.ee](mailto:standardiosakond@evs.ee).

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English Version

Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 3: Method for determination of thickness (ISO 2286-3:2016)

Supports textiles revêtus de caoutchouc ou de plastique - Détermination des caractéristiques des rouleaux - Partie 3: Méthode de détermination de l'épaisseur (ISO 2286-3:2016)

Mit Kautschuk oder Kunststoff beschichtete Textilien - Bestimmung der Rollencharakteristik - Teil 3: Bestimmung der Dicke (ISO 2286-3:2016)

This European Standard was approved by CEN on 1 September 2016.

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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  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (EN ISO 2286-3:2016) 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 2017, and conflicting national standards shall be withdrawn at the latest by April 2017.

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

This document supersedes EN ISO 2286-3:1998.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

### Endorsement notice

The text of ISO 2286-3:2016 has been approved by CEN as EN ISO 2286-3:2016 without any modification.

# Contents

Page

<b>Foreword</b>	<b>iv</b>
<b>Introduction</b>	<b>v</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Normative reference</b>	<b>1</b>
<b>3 Terms and definitions</b>	<b>1</b>
<b>4 Apparatus</b>	<b>1</b>
<b>5 Conditioning</b>	<b>2</b>
<b>6 Procedure</b>	<b>2</b>
6.1 General	2
6.2 Measurement	2
<b>7 Expression of results</b>	<b>3</b>
<b>8 Test report</b>	<b>3</b>

## 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)).

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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 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: [Foreword – Supplementary information](#)

The committee responsible for this document is ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 4, *Products (other than hoses)*.

This second edition cancels and replaces the first edition (ISO 2286-3:1998), which has been technically revised. The changes are as follows:

- in [4.1](#), the smallest scale reading has been changed to 0,01 mm;
- in [4.2](#), the pressure of 5 kPa has been added and the force corresponding to each pressure has been added for reference;
- in [Clause 5](#), the conditioning atmosphere has been clarified;
- in [Clause 6](#), the requirement for recording the temperature and humidity has been added; the usable width has been clearly specified; the period of pressing time has been changed to more flexible;
- in [Clause 8](#), items b) and e) have been added.

ISO 2286 consists of the following parts, under the general title *Rubber- or plastics-coated fabrics — Determination of roll characteristics*:

- *Part 1: Methods for determination of length, width and net mass*
- *Part 2: Methods for determination of total mass per unit area, per unit area of coating and mass per unit area of substrate*
- *Part 3: Method for determination of thickness*

## Introduction

Compared with metals, coated fabrics are easily compressed, and the measured thickness will depend considerably upon the method and pressure employed. This is perhaps the single most important reason for having a standard method for measuring the thickness of coated fabrics.

An effort has been made to enable the results to be comparable with measurements of the thickness of textile substrates.

# Rubber- or plastics-coated fabrics — Determination of roll characteristics —

## Part 3: Method for determination of thickness

**WARNING** — Persons using this International Standard should be familiar with normal laboratory practice. This International Standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

### 1 Scope

This part of ISO 2286 specifies a method for the determination, at a specified pressure, of the thickness of rubber- and plastics-coated fabrics, irrespective of the type of substrate employed. It is applicable to single-face, double-face and double-texture coated fabrics, as well as materials in which an expanded layer is included in the coating.

### 2 Normative reference

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2231:1989, *Rubber- or plastics-coated fabrics — Standard atmospheres for conditioning and testing*

### 3 Terms and definitions

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

#### 3.1

##### **thickness**

distance between the face and the back of a coated fabric, measured as the vertical distance between a reference plate on which the fabric rests and a parallel presser foot that is applying a pressure to the fabric

#### 3.2

##### **usable width**

width of a coated fabric, excluding the selvedge, which is consistent in its properties, uniformly finished and free from unacceptable flaws

### 4 Apparatus

**4.1 Dial gauge**, of the deadweight type, designed to register the vertical distance between the bearing surfaces of a presser foot and reference plate, and equipped with a dial graduated to give a direct readout of the thickness to the nearest 0,01 mm. The gauge shall be calibrated in such a way as to permit at least one of the pressures specified in 4.2 to be obtained using at least one of the presser foot sizes.

**4.2 Circular pressure foot**, with a smooth, flat surface and a diameter of not less than 9 mm, capable of applying one or more of the following pressures: