BS EN ISO 2286-2:2016

BSI Standards Publication

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

Part 2: Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate (ISO 2286-2:2016)

bsi.

National foreword

This British Standard is the UK implementation of EN ISO 2286-2:2016. It supersedes BS EN ISO 2286-2:1998 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee TCI/69, Footwear, leather and coated fabrics.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English Version

Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 2: Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate (ISO 2286-2:2016)

Supports textiles revêtus de caoutchouc ou de plastique - Détermination des caractéristiques des rouleaux - Partie 2: Méthodes de détermination de la masse surfacique totale, de la masse surfacique du revêtement et de la masse surfacique du support (ISO 2286-2:2016)

Mit Kautschuk oder Kunststoff beschichtete Textilien - Bestimmung der Rollencharakteristik - Teil 2: Bestimmung der flächenbezogenen Gesamtmasse, der flächenbezogenen Masse der Beschichtung und der flächenbezogenen Masse des Trägers (ISO 2286-2:2016)

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

This document (EN ISO 2286-2:2016) 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 2286-2:1998.

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 2286-2:2016 has been approved by CEN as EN ISO 2286-2:2016 without any modification.

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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).

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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 title*, Subcommittee SC 4, *Products (other than hoses).*

This second edition cancels and replaces the first edition (ISO 2286-2:1998), which has been technically revised. The changes are as follows:

— in 3.1.1, the accuracy of the balance has been changed;

— in 3.2, the usable width of the sample has been clearly specified;

— in 3.3, the drying process has been changed to optional and the conditioning atmosphere has been specified more clearly;

— in 3.5 and 4.7, item b) has been added;

— in 4.5.3, the conditioning atmosphere has been specified more clearly.

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

The total mass per unit area of a material, the mass per unit area of the substrate cloth and the mass per unit area of the coating are quantities which define the basic quality of a coated fabric and determine many of its physical properties. The substrate cloth mass determined by these methods does not necessarily represent the mass of the substrate cloth in the uncoated state. For example, in the case of coated fabrics in which a bonding agent has been used, the substrate cloth mass determined may be substantially higher than the uncoated mass because the prescribed treatment has not removed the entire coating. This will be particularly so in cases where the substrate cloth is made from multifilament or spun-fibre yarns. Dimensional changes in the substrate cloth during processing may also occur.

INTERNATIONAL STANDARD ISO 2286-2:2016(E)

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

Part 2:
Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate

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 methods of determining the total mass per unit area, the mass per unit area of the coating and the mass per unit area of the substrate cloth of a rubber- or plastics-coated fabric. Methods for removing coatings of specific compositions are described in Annex A.

2 Normative references

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 Determination of total mass per unit area

3.1 Apparatus

3.1.1 Balance, capable of reading to 1 mg or less.

3.1.2 Means of maintaining an atmosphere with a relative humidity not greater than 10 % and a temperature of 65 °C ± 5 °C.

NOTE Air at 20 °C and 65 % relative humidity, when heated at constant pressure to 65 °C ± 5 °C, will have a relative humidity of approximately 5 %. Higher temperatures can lead to changes in some coatings.

3.1.3 Cutter, capable of cutting, from the sample of coated fabric, a test piece of area 100 cm^2 ± 1 cm^2.

NOTE It has been found convenient to use a circular cutter for this purpose, but square or rectangular test pieces can be used provided they are within the accuracy specified above.