

DRAFT INTERNATIONAL STANDARD

ISO/DIS 2286-1

ISO/TC 45/SC 4

Secretariat: **DSM**

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

Part 1:

Methods for determination of length, width and net mass

Supports textiles revêtus de caoutchouc ou de plastique — Détermination des caractéristiques des rouleaux —

Partie 1: Méthodes de détermination de la longueur, de la largeur et de la masse nette

ICS: 59.080.40

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ISO/CEN PARALLEL PROCESSING

This draft has been developed within the International Organization for Standardization (ISO), and processed under the **ISO lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

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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.

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 2286-1 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 4, *Products (other than hoses)*.

Together with other parts (see below), this third edition cancels and replaces the second edition ISO 2286-1:1998, which has been technically revised.

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, mass per unit area of coating and mass per unit area of substrate*
- *Part 3: Methods for determination of thickness*

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

Part 1: Methods for determination of length, width and net mass

WARNING — Persons using this International Standard should be familiar with normal laboratory practice. This 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 length, width and net mass of a roll of rubber- or plastics-coated fabrics.

2 Terms and definitions

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

2.1 usable width

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

3 Apparatus

3.1 Measuring surface, comprising a flat horizontal surface not less than 5 m long and at least as wide as the roll to be examined. Both longitudinal edges of this surface shall be marked off in 1 m lengths. At least one of these lengths, preferably at the end of the surface, shall be marked at 1 cm intervals.

3.2 Measuring scale, of a length greater than the width of the fabric to be measured, graduated in millimetres

3.3 Balance, accurate to the nearest 100 g

4 Procedure

4.1 General

Record the atmospheric temperature and the humidity at the time of the measurement.

4.2 Determination of length

Proceed either as described in the following paragraph of this sub clause, or use any other suitable mechanical, electromechanical or photoelectric equipment for measuring coated-fabric length.

NOTE The above alternative means of measurement may not, however, be suitable for extensible coated fabrics such as those having a knitted substrate.

Trim the cut end of the roll so that it is at right angles to the longitudinal axis of the roll, confining the trimming to the minimum necessary to ensure perpendicularity. With the cut end of the roll coincident with the zero mark on the measuring surface (3.1), unroll the material along the surface in such a manner that no tension is introduced. On reaching the other end of the surface, mark the back of the roll in some suitable way at both edges so that the marks coincide with a particular division of length. Re-roll the length that has been measured. Lay out, free from tension, a further length of the unmeasured part of the roll, and measure from the edge marks, as before. Repeat this process until the end of the roll appears, trimming this as necessary until it is at right angles to the longitudinal axis of the roll, again confining the trimming to the minimum necessary to ensure perpendicularity. Measure the final length to the nearest 100 mm unless otherwise specified between the interested parties.

In cases of dispute, this method shall be the referee method.

4.3 Determination of usable width

While the coated fabric is unrolled and free of tension during the measurements described in 4.1, measure, using the measuring scale (3.2), and record, at intervals of 10 m, the usable width of the coated fabric to the nearest 5 mm unless otherwise specified between the interested parties, ensuring that all measurements of width are taken at right angles to the longitudinal axis of the roll.

For rolls less than 20 m long, measure the width at three positions, i.e. near the two ends and in the middle.

4.4 Determination of mass

Use the balance (3.3) to determine the mass of the tube or former upon which the coated fabric was rolled and record the value in grams. Roll the coated fabric on the tube or former. Determine the gross mass of the roll of coated fabric and record the value in grams. Deduct the mass of the tube or former from the gross mass of the roll and record this figure, to the nearest 100 g unless otherwise specified between the interested parties, as the net mass of the roll.

5 Test report

The test report shall include the following information: In item d), e), and f), use the value when it is specified between the interested parties.

- a) a reference to this part of ISO 2286
- b) the atmospheric temperature and the humidity at the time of the measurement;
- c) a complete description of the coated fabric;
- d) the length of the roll, in metres, rounded down to the nearest 0,1 m;
- e) the mean of the recorded widths to the nearest 5 mm, and also the minimum usable width recorded;
- f) the net mass of the roll, to the nearest 100 g;
- g) details of the equipment used to measure the length in 4.1;
- h) details of any deviations from the procedure specified;
- i) the date of the determinations.

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