
**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*



Foreword

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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.

International Standard ISO 2286-1 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

Together with the other parts (see below), it cancels and replaces ISO 2286:1986, which has been technically revised.

ISO 2286 consists of the following parts, under the general title *Rubber- and 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: Method for determination of thickness*

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

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

Part 1:

Methods for determination of length, width and net mass

WARNING – Persons using this part of ISO 2286 should be familiar with normal laboratory practice. This part of ISO 2286 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 describes methods of determining the length, width and net mass of a roll of rubber- or plastics-coated fabric.

2 Definition

For the purposes of this part of ISO 2286, the following definition applies.

2.1 usable width: That width of a coated fabric, excluding the selvedge, 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 Determination of length

Proceed either as described in the following paragraph of this subclause, 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 50 mm or to $\pm 0,2\%$, whichever is the greater.

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

4.2 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, 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.

4.3 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, as the net mass of the roll.

5 Test report

The test report shall include the following information:

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