

International Standard



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

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

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Descriptors : rubber, plastics, coated fabrics, fabrics coated with rubber, fabrics coated with plastics, rolls, tests, dimensional measurements, mass.



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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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

This second edition cancels and replaces the first edition (ISO 2286-1972), sub-clauses 3.2, 4.2, 5.1.2, 5.1.3, 6.1 and 6.2 of which have been technically revised.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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

1 Scope and field of application

This International Standard specifies methods for determining the length, width, net mass, mass per unit area, and thickness of rolls of coated fabrics. Normally, the length of a roll is greater than 10 m. It should be noted that the roll cannot normally be conditioned in a standard atmosphere and, therefore, the results may be influenced by variations of moisture regain due to changes in atmospheric conditions.

2 Reference

ISO 2231, *Fabric coated with rubber or plastics — Standard atmospheres for conditioning and testing*.

3 Definition

For the purpose of this International Standard, the following definition applies.

usable width: The width of a roll limited by the points within which the coated fabric fulfils the specified requirements.

4 Determination of the length of a roll

4.1 Reference method

4.1.1 Apparatus

Flat table, not less than 5 m long and at least as wide as the roll to be tested. Both longitudinal edges of the table shall be marked off in 1 m lengths, at least one of these lengths, preferably at one end of the table, being sub-divided into 1 cm divisions.

4.1.2 Procedure

Trim the cut end of the roll, if necessary, so that it is at right angles to the warp (lengthwise) direction of the roll, such trimming being confined to the minimum which is necessary to effect this. With the cut end of the roll aligned with the zero mark on the table (4.1.1), unroll the material along the table so that no tension is introduced. On reaching the limit of the table, mark the back of the roll by some suitable method on both edges to coincide with a known division of length. Re-roll the portion that has been measured. Lay out, free from tension, a further portion of the unmeasured length and measure from the

marked edges as before. Repeat this process until the end of the roll is reached, trimming this, if necessary, as before. Measure the final length to the nearest 5 cm.

4.2 Alternative method

As an alternative to the manual technique described in 4.1, any suitable mechanical, electromechanical or photoelectric means of measuring the coated fabric length that gives results equivalent to these obtained using the method in 4.1 may be used. In cases of dispute the reference method in 4.1 shall be used.

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

4.3 Expression of results

Report the length of the roll, in metres, as the sum of all the readings, rounded to the nearest 0,1 m.

5 Determination of the width of a roll

5.1 Apparatus

5.1.1 Flat table, not less than 2 m long and at least as wide as the roll to be tested.

5.1.2 Steel scale, of length greater than the width of the roll to be measured, graduated in millimetres.

5.2 Procedure

While the coated fabric is unrolled on the table (5.1.1) and free of tension during measurements taken at 4.1, using the scale (5.1.2) measure 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 direction 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 of the roll.

5.3 Expression of results

Calculate the mean of the recorded widths and report the value obtained as the average usable width to the nearest 0,005 m. Report also the minimum usable width recorded.