

SLOVENSKI STANDARD

SIST EN 12625-6:2000

01-april-2000

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Tissue paper and tissue products - Part 6: Determination of grammage

Tissue-Papier und Tissue-Produkte - Teil 6: Bestimmung der flächenbezogenen Masse

Papier tissue et produits tissues - Partie 6: Détermination du grammage

Ta slovenski standard je istoveten z: **EN 12625-6:1999**

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ICS:

85.080.20 Tissue papir

Tissue paper

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EUROPEAN STANDARD

EN 12625-6

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 1999

ICS

Descriptors: paper, paper products, sheets, tests, determination, specific area

English version

Tissue paper and tissue products - Part 6: Determination of
grammagePapier tissue et produits tissues - Partie 6: Détermination
du grammageTissue-Papier und Tissue-Produkte - Teil 6: Bestimmung
der flächenbezogenen Masse

This European Standard was approved by CEN on 2 December 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 172 "Pulp, paper and board", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by July 1999, and conflicting national standards shall be withdrawn at the latest by July 1999.

EN 12625 contains the following parts:

- Part 2: Procedures for sampling and conditioning (currently available as ENV)
- Part 3: Determination of thickness, bulking thickness and apparent bulk density
- Part 4: Determination of tensile strength, stretch at break and tensile energy absorption
- Part 5: Determination of wet tensile strength
- Part 6: Determination of grammage

The following Standards of this series are in preparation:

- Part 1: General guidance on terms
- Part ...: Water absorption rate and water absorption capacity (basket method)
- Part ...: Optical properties (whiteness, opacity, colour)

In addition, it is expressly stated, that the detection of impurities and contraries in tissue paper and tissue products should be applied according to the following European Standard:

- prEN ISO 15755 "Paper and board - Estimation of contraries (ISO/FDIS 15755:1998)"

For the determination of moisture content in tissue paper and tissue products, EN 20287 should be applied.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This part of EN 12625 specifies a test method for the determination of grammage of tissue paper and tissue products.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ENV 12625-2

Tissue paper and tissue products – Part 2: Procedures for sampling and conditioning

EN ISO 536

Paper and board – Determination of grammage (ISO 536 : 1995)

EN 20187

Paper, board and pulps – Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples (ISO 187 : 1990)

3 Definitions

For the purposes of this Standard, the following definitions apply:

3.1 grammage (for paper or board): mass of a unit area of paper or board determined by a specified method of test.

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Grammage is expressed in grams per square metre (see EN ISO 536).

NOTE: The definition in 3.1 is not generally applicable for tissue products supplied as a finished article of given dimensions.

3.2 grammage of tissue paper or tissue products: mass of a specified area settled or pre-defined by product dimensions of the tissue paper or the tissue product as supplied for its intended use determined by a specific method of test.

It is to differentiate between:

- single ply base sheet material according to e.g. a tissue paper;
- multi-ply sheet material consisting of uniform ply grammage, typical for most of the tissue products;
- multi-ply sheet material consisting of differentiating grammages per ply; depending on the location in the multi-ply product any individual ply may vary or be identical to some of the plies regarding its grammage.

Grammage of tissue paper or tissue products is also expressed in grams per square metre.

4 Principle

Measurement of the mass of a test piece of a tissue paper or a tissue product supplied as a finished article of given dimensions independent of the unit area.

5 Apparatus

5.1 Cutting device in accordance with EN ISO 536.

5.2 Weighing device, e. g. a balance with a measuring accuracy of 0,001 g.

6 Sampling

Sampling shall be carried out in accordance with ENV 12625-2

7 Preparation and conditioning of test pieces

7.1 Cutting of test pieces

The test pieces shall be cut to dimensions in accordance with ENV 12625-2 using a cutting device in accordance with EN ISO 536.

When cutting the specimens to dimensions for the preparation of test pieces, the test sheet or the stack of super-imposed test sheets shall be placed between two supporting sheets of paper or board of optional composition and which have a grammage exceeding 40 g/m² in order to obtain test pieces with clean cut edges and dimensions as specified.

Unfold finished tissue products available in folded form and cover them with e.g. a transparent and stiff foil or glass plate or metal rule to eliminate folds to the largest possible extent. Then determine the dimensions of the ready-to-use article before determining the grammage.

7.2 Dimensions

The area of the test pieces shall be $(100 \pm 0,5)$ cm² or anything larger with the same percentage of precision.

7.3 Number of test pieces

The number of test pieces taken shall be at least ten.

7.4 Conditioning of test pieces

The test pieces shall be conditioned in accordance with ENV 12625-2.

8 Procedure

8.1 Place the balance on a horizontal vibration-free surface within the conditioned atmosphere defined in ENV 12625-2.

8.2 Prepare and weigh the conditioned test pieces under standard atmosphere conditions in accordance with EN 20187.

8.3 Determine the grammage of test pieces with a specified area measuring in the best case $(100 \pm 0,5)$ cm² using the weighing device (balance) in accordance with EN ISO 536 to the first decimal place.

8.4 Determine the grammage of a multi-ply test piece comprising the number of plies as supplied in the finished product.

If the correct number of plies is unknown and cannot be ascertained from the finished product make sure that all plies are of identical grammage and of the same kind, then determine the grammage of a test piece with ten single plies.

8.5 Any deviation in the procedure as described above (see e. g. 8.4) shall be explicitly mentioned in the test report.

9 Calculation

The test results shall be calculated in accordance with EN ISO 536.

NOTE: Determination of the grammage of individual plies of a multi-ply tissue product by dividing its grammage by the number of single plies should only be permissible if each of the individual plies may safely be assumed to have identical grammage.

10 Test report

The test report shall refer to this European Standard and state:

- a) description and identification of the sample, such as e.g. product category, dimensions under test;
- b) number of single plies and its location in the specimen;
- c) grammage in grams per square metre, rounded to the first decimal place, number of single values, mean value, standard deviation or variation coefficient;
- d) if required: grammage of each single ply of a multi-ply tissue product with individual plies of non-uniform grammage indicated in terms of mean value, standard deviation or variation coefficient; in this case, the position of the single ply in the multi-ply tissue paper shall be clearly identified;
- e) place and date of testing;
- f) any departure from this European Standard.

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