



National Standards Authority of Ireland

IRISH STANDARD

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ICS 85.080

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**TISSUE PAPER AND TISSUE PRODUCTS -
PART 7: DETERMINATION OF OPTICAL
PROPERTIES**

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EUROPEAN STANDARD

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English version

Tissue paper and tissue products - Part 7: Determination of optical properties

Papier tissue et produits tissues - Partie 7: Détermination des propriétés optiques

Tissue-Papier und Tissue-Produkte - Teil 7: Bestimmung von optischen Eigenschaften

This European Standard was approved by CEN on 5 July 2000.

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.



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of an identical text or by endorsement, at the latest by January 2001, and conflicting national standards shall be withdrawn at the latest by January 2001.

This Standard of the series EN 12625 contains the following parts:

- Part 2: Procedures for sampling and conditioning (currently available as a prENV)
- 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
- Part 7: Determination of optical properties

The following Standards of this series are in preparation:

- Part 1: General guidance on terms
- Part ..: Water absorption sink time and water absorption capacity - Manual and automated test method

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:

- EN ISO 15755: Paper and board – Estimation of contraries (ISO 15755 :1999)

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.

Introduction

Optical measurements are affected by the geometry of the instruments used and by the texture of the material. The design of the instrument to be used according to this European Standard and the routine to be adopted for its calibration are specified in ISO 2469.

The optical properties are related to the visual appearance of the material and these properties are not therefore regarded as functional properties of tissue paper. It is therefore recommended that agreement with respect to the properties to be measured is reached by the parties concerned from case to case. If it is desired to achieve a match with products based on other materials e.g. between table napkins and candles, visual comparison may be essential.

1 Scope

This part of EN 12625 specifies the test methods that shall be used for the instrumental determination of optical properties of tissue paper and tissue products.

It also gives recommendations regarding relevant optical properties to be measured for different grades of tissue paper and tissue products and gives specific instructions for the preparation of test pieces (single-ply, multi-ply products) and for the optical measurements of creped products and embossed products, where special precautions may be necessary if the test pieces surfaces are uneven and if the materials are bulky so that air is entrapped between the sheets.

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 (including amendments).

ENV 12625-2

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

ISO 2469

Paper, board and pulps – Measurement of diffuse reflectance factor

ISO 2471

Paper and board – Determination of opacity (paper backing) – Diffuse reflectance method

ISO 11475

Paper and board – Determination of CIE whiteness, D65/10° (outdoor daylight)

ISO 2470

Paper and board – Measurement of diffuse blue reflectance factor (ISO brightness)

ISO 5631

Paper and board – Determination of colour (C/2°) – Diffuse reflectance method

ISO/DIS 11476

Paper and board – Determination of CIE whiteness (C/2°) in indoor illumination conditions

ISO 10526

CIE standard illuminants for colorimetry

ISO/CIE 10527

CIE standard colorimetric observers

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