

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

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Determination of optical properties

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 12625-7:2007 sisaldab Euroopa standardi EN ISO 12625-7:2007 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 20.04.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 12625-7:2007 consists of the English text of the European standard EN ISO 12625-7:2007.</p> <p>This document is endorsed on 20.04.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This part of ISO 12625 specifies the test methods that shall be used for the instrumental determination of optical properties of tissue paper and tissue products. The various test methods that are available have been or are being developed as ISO International Standards. They are listed and explained in Annex A.</p>	<p>Scope:</p> <p>This part of ISO 12625 specifies the test methods that shall be used for the instrumental determination of optical properties of tissue paper and tissue products. The various test methods that are available have been or are being developed as ISO International Standards. They are listed and explained in Annex A.</p>
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ICS 85.060

Võtmesõnad:

English Version

**Tissue paper and tissue products - Part 7: Determination of
optical properties (ISO 12625-7:2007)**

Papier tissue et produits tissues - Partie 7: Détermination
des propriétés optiques (ISO 12625-7:2007)

Tissue-Papier und Tissue-Produkte - Teil 7: Bestimmung
der optischen Eigenschaften (ISO 12625-7:2007)

This European Standard was approved by CEN on 17 February 2007.

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

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Foreword

This document (EN ISO 12625-7:2007) has been prepared by Technical Committee CEN/TC 172 "Pulp, paper and board", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 6 "Paper, board and pulps".

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 September 2007, and conflicting national standards shall be withdrawn at the latest by September 2007.

This document supersedes EN 12625-7:2000.

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

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

Papier tissue et produits tissues —

Partie 7: Détermination des propriétés optiques



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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 12625-7 was prepared by the European Committee for Standardization (CEN), Technical Committee CEN/TC 172, *Pulp, paper and board*, in collaboration with Technical Committee ISO/TC 6, *Paper, board and pulps*, Subcommittee SC 2, *Test methods and quality specifications for paper and board*, in accordance with the Agreement on technical co-operation between ISO and CEN (Vienna Agreement).

ISO 12625 consists of the following parts, under the general title *Tissue paper and tissue products*:

- *Part 1: General guidance on terms*
- *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*
- *Part 8: Water-absorption time and water-absorption capacity, basket-immersion test method*
- *Part 9: Determination of ball burst strength*

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 part of ISO 12625, 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. Therefore, although optical properties are intrinsic properties of tissue paper, they are not functional properties. It is 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, for example, between table napkins and candles, visual comparison may be essential.

Tissue paper and tissue products —

Part 7: Determination of optical properties

1 Scope

This part of ISO 12625 specifies test methods for the instrumental determination of optical properties of tissue paper and tissue products. The various test methods that are available have been, or are being, developed as International Standards. They are listed and explained in Annex A.

This part of ISO 12625 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-piece surfaces are uneven and if the materials are bulky, so that air is entrapped between the sheets.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 186, *Paper and board — Sampling to determine average quality*

ISO 187, *Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples*

ISO 2469, *Paper, board and pulps — Measurement of diffuse reflectance factor*

ISO 2470:1999, *Paper and board — Measurement of diffuse blue reflectance factor (ISO brightness)*

ISO 2471, *Paper and board — Determination of opacity (paper backing) — Diffuse reflectance method*

ISO 5631, *Paper and board — Determination of colour (C/2°) — Diffuse reflectance method*

ISO 11475, *Paper and board — Determination of CIE whiteness, D65/10° (outdoor daylight)*

ISO 11476, *Paper and board — Determination of CIE whiteness, C/2° (indoor illumination conditions)*