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**Paber ja papp. Tõmbeomaduste määramine.
Osa 2: Konstantse venitamiskiiruse meetod**

Paper and board - Determination of tensile properties - Part 2: Constant rate of elongation method

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 1924-2:2000 sisaldab Euroopa standardi EN ISO 1924-2:1995 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 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 1924-2:2000 consists of the English text of the European standard EN ISO 1924-2:1995.</p> <p>This document is endorsed on 11.01.2000 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: Standardi ISO 1924 käesolevas osas kindlaksmääratud tõmbeomaduste määramise meetod on seotud standardis ISO 1924-1 määratud meetodiga. Käesolevas meetodis kasutatakse teimimisseadet, mis töötab konstantse venitamiskiirusega, samal ajal kui standardis ISO 1924-1 kirjeldatud meetodis rakendatakse konstantse kiirusega tõmbejõudu, mis põhjustab katkemise 20 ± 5 sekundilise ajavahemiku jooksul.</p>	<p>Scope:</p>
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ICS 85.060

Võtmesõnad: kartongid, määramine, paber, pikendamine, teimimine, tugevus, tõmbe-, tõmbeomadused, tõmbeteimid

ICS 85.060

Descriptors: Paper, board, testing, tensile strength.

English version

Paper and board

Determination of tensile properties

Part 2: Constant rate of elongation method

(ISO 1924-2:1994)

Papier et carton; détermination des propriétés de traction. Partie 2: Méthode à gradient d'allongement constant (ISO 1924-2:1994)

Papier und Pappe; Bestimmung von Eigenschaften bei zugförmiger Belastung. Teil 2: Verfahren mit konstanter Dehngeschwindigkeit (ISO 1924-2:1994)

This European Standard was approved by CEN on 1994-11-14 and is identical to the ISO Standard referred to.

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.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

International Standard

ISO 1924-2:1994 Paper and board; determination of tensile properties; constant rate of elongation method, which was prepared by ISO/TC 6 'Paper, board and pulps' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 172 'Pulp, paper and board' as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by August 1995 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of the International Standard ISO 1924-2:1994 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

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Introduction

The method specified in this part of ISO 1924 for the determination of tensile properties is related to the method specified in ISO 1924-1.

This method uses a test instrument operating at a constant rate of elongation, whereas the method described in ISO 1924-1 uses a constant rate of application of tensile force which causes failure in a mean time of $20 \text{ s} \pm 5 \text{ s}$.

Because of the different principles involved, the comparison of results obtained by using apparatus complying with ISO 1924-1 and this part of ISO 1924 is not recommended. Where such a comparison is necessary, it should only be undertaken when the time to fail is of the same order for the respective tests.

1 Scope

This part of ISO 1924 specifies a method of measuring the tensile strength, stretch at break and tensile energy absorption of paper and board using a test instrument operating at a constant rate of elongation. It also specifies methods for calculating the tensile index, the tensile energy absorption index and the modulus of elasticity.

Testing in conformance with this part of ISO 1924 always includes the measurement of tensile strength. Measurement or calculation of other properties is subject to agreement between the parties concerned.

This part of ISO 1924 applies to all papers and boards, including papers with a high stretch at break if the results are within the capacity of the test instrument. It also applies to the components of corrugated board but not, however, to corrugated board itself.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 1924. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 1924 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 186:1994, *Paper and board — Sampling to determine average quality.*

ISO 187:1990, *Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples.*

ISO 534:1988, *Paper and board — Determination of thickness and apparent bulk density or apparent sheet density.*

ISO 536:—¹⁾, *Paper and board — Determination of grammage.*

ISO 5270:1979, *Pulps — Laboratory sheets — Determination of physical properties.*

3 Definitions

For the purposes of this part of ISO 1924, the following definitions apply.

3.1 tensile strength: The maximum tensile force per unit width that paper and board will withstand before breaking under the conditions defined in the standard test method.

3.2 tensile index: Tensile strength (expressed in kilonewtons per metre) divided by grammage.

3.3 stretch at break: The measured elongation at the moment of rupture of a test piece of paper or

1) To be published. (Revision of ISO 536:1976)