

## **Adhesives for paper and board, packing and disposable sanitary products - Determination of tensile strength and elongation**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1896:2001 sisaldab Euroopa standardi EN 1896:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.06.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1896:2001 consists of the English text of the European standard EN 1896:2001.</p> <p>This document is endorsed on 19.06.2001 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><b>Käsitlusala:</b> This European Standard specifies a method of test for determination of tensile strength and elongation of dry films of hot melt or dispersion adhesives, when these are stretched to breakage at a constant pulling speed.</p>	<p><b>Scope:</b> This European Standard specifies a method of test for determination of tensile strength and elongation of dry films of hot melt or dispersion adhesives, when these are stretched to breakage at a constant pulling speed.</p>
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**ICS** 83.180

**Võtmesõnad:** adhesive film, adhesives, bonding, definitions, determination, dispersion adhesive, dispersion adhesives, disposable cleaning materials, elongation, packages, packing, paper, pulling speed, tensile strength, testing

ICS 83.180

**English version**

**Adhesives for paper and board, packaging and  
disposable sanitary products**

**Determination of tensile strength and elongation**

Adhésifs pour papier et carton,  
emballage et produits sanitaires  
jetables – Détermination de la  
résistance à la traction et de  
l'allongement

Klebstoffe für Papier, Verpackung  
und Hygieneprodukte – Bestimmung  
der Zugfestigkeit und Dehnung

This European Standard was approved by CEN on 2001-01-06.

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 Management Centre or to any CEN member.

The European Standards exist 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 Management Centre has the same status as the official versions.

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

**CEN**

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 193 "Adhesives", the secretariat of which is held by AENOR.

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 2001, and conflicting national standards shall be withdrawn at the latest by July 2001.

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.

## 1 Scope

This European Standard specifies a method of test for the determination of tensile strength and elongation of dry films of hot melt or dispersion adhesives, when these are stretched to breakage at a constant pulling speed.

## 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).

EN 923	Adhesives –Terms and definitions.
EN 1066	Adhesives – Sampling.
EN 1067	Adhesives – Examination and preparation of samples for testing.
ISO 554	Standard atmospheres for conditioning and/or testing – Specifications.

## 3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 923 and the following definitions apply:

### 3.1

#### **film tensile strength**

maximum force measured during the extension of test specimen, divided by the initial cross-section area of the test specimen. Tensile strength is dependent of pulling speed.

### 3.2

#### **film elongation at break**

increase in length, measured at the moment of break, reported to the initial length expressed in percent.

## 4 Safety

Persons using this standard shall be familiar with normal laboratory practice.

This standard does not purport to address all the safety problems, if any, associated with its use.

It is the responsibility of the user to establish safety and health practices and to ensure compliance with any European and national regulatory conditions.

## 5 Apparatus

**5.1 Thickness gauge:** able to measure 0,01 mm without deforming the film.

**5.2 Tensile testing machine:** capable of supplying a tensile force with a constant rate of grip separation. The machine shall be equipped with a force-measuring system complete with an indicator and/or a recorder.

The indicated force shall not differ from the true applied force by more than 2%. The response time of the machine shall be short enough not to affect the accuracy with which the force applied at the time of rupture can be measured.