



**SLOVENSKI STANDARD**

**SIST EN 1942:2008**

**01-oktober-2008**

**BUXca Yý U.**

**SIST EN 1942:2003**

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**Samolepilni trakovi - Merjenje debeline**

Self adhesive tapes - Measurement of Thickness

Klebebänder - Messung der Dicke

Rubans auto-adhésifs - Mesure de l'épaisseur

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**Ta slovenski standard je istoveten z: EN 1942:2008**

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**ICS:**

83.180

Lepila

Adhesives

**SIST EN 1942:2008**

**en,fr,de**

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English Version

## Self adhesive tapes - Measurement of Thickness

Rubans auto-adhésifs - Mesure de l'épaisseur

Klebebänder - Messung der Dicke

This European Standard was approved by CEN on 24 February 2008.

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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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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## Foreword

This document (EN 1942:2008) has been prepared by Technical Committee CEN/TC 253 "Self adhesive tapes", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1942:2003.

Annex A provides details of significant technical changes between this European Standard and the previous edition.

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 the United Kingdom.

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EN 1942:2008 (E)

## Introduction

This European Standard has been revised in conjunction with AFERA (Association of European Self Adhesive Tapes Manufacturers) in Europe and PSTC (Pressure Sensitive Tape Council) in the USA, with the purpose to produce a standard which will be accepted in due course by ISO.

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## 1 Scope

This European Standard specifies a method on how to measure the total thickness of both the backing and adhesive layer comprising an adhesive tape.

## 2 Terms and definitions

For the purposes of this document, the following term and definition applies.

### 2.1

#### **thickness of adhesive tape**

vertical distance between the two surfaces of an adhesive tape

## 3 Significance and use

The thickness is an important property of an adhesive tape and is important for certain end uses.

It is useful for quality control and acceptance testing for conformance to specification.

## 4 Principle

The adhesive tape is placed between the pressure foot and platform of a micrometer within controlled pressure limits.

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## 5 Required materials

Appropriate cleaning solvent for the pressure foot.

## 6 Apparatus

A micrometer (calliper gauge) with two plane surfaces, the smaller of which is circular and 5 mm to 16 mm in diameter. The faces shall be parallel to within 5  $\mu\text{m}$  and constrained to move apart along an axis perpendicular to them. When the test piece is placed between the faces the pressure exerted by the foot shall be in the range of 40 kPa to 60 kPa.

The micrometer used shall be sensitive to at least 2  $\mu\text{m}$  and have a graduation adapted to this sensitivity.

## 7 Test sample and test pieces

**7.1** Unless otherwise specified, condition the roll in an atmosphere maintained at  $(23 \pm 1) ^\circ\text{C}$  and  $(50 \pm 5) \%$  relative humidity (RH).

**7.2** The test piece width shall be greater than the diameter of the foot of the micrometer and at least 50 mm long. The test pieces shall be free from surface irregularities or creases other than the normal surface features of the type of adhesive tape under test.

**NOTE** Nevertheless, this method can be applied to adhesive tapes of width less than the diameter of the circular foot on the micrometer. However, in this case, the value obtained can only be approximate.

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7.3 Unwind and discard at least 3 but not more than 6 outer turns of adhesive tape from the roll before taking test pieces.

7.4 Unless otherwise specified, remove one test piece per sample roll.

## 8 Procedure

8.1 Zero the instrument in accordance with the manufacturer's instructions. Clean the pressure foot using a suitable solvent before every measurement.

8.2 Place the test piece under the foot of the micrometer, adhesive side up, and lower the pressure foot gently upon the surface of the tape. Record the reading of the dial to the nearest  $2\ \mu\text{m}$  1 s after lowering the foot. Make two further measurements for each test piece using a different area of the test piece each time. Average the measurements to obtain the thickness value for that test piece.

8.3 To measure double coated tapes with liner, measure the thickness of the test piece with liner in place as in 8.2. Mark the liner where the measurements were made. Remove the liner and repeat the measurements on the liner only as in 8.2 in the marked positions. Average both sets of measurements, subtract the average of the liner from the average of the total (tape plus liner) and record the difference as the thickness of the tape.

## 9 Expression of results

Take as the thickness the arithmetic mean (average) of the measurements made, as described above. Express this in  $\mu\text{m}$ .

## 10 Test report

The test report shall include the following information:

- a) reference to this European Standard (EN 1942:2008);
- b) all information necessary to identify the test sample;
- c) results obtained;
- d) width of test piece if narrower than the micrometer foot;
- e) any operation not specified in this European Standard which can influence the results;
- f) date and place of the test;
- g) name and signature of the person conducting the test.