



**SLOVENSKI STANDARD**  
**SIST EN 1942:1997**  
**01-avgust-1997**

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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

**Ta slovenski standard je istoveten z: EN 1942:1996**

[SIST EN 1942:1997  
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**ICS:**

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EUROPEAN STANDARD

EN 1942

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 1996

ICS 83.180

Descriptors: adhesive tapes, thickness measurement

English version

## Self adhesive tapes - Measurement of thickness

Rubans auto-adhésifs - Mesure de l'épaisseur Klebänder - Messung der Dicke

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REPUBLIKA SLOVENIJA  
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO  
Urad RS za standardizacijo in meroslovje  
LJUBLJANA

SIST..... EN 1942 .....  
PREVZET PO METODI RAZGLASITVE

-08- 1997

This European Standard was approved by CEN on 1996-01-14. 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.

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**CEN**

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 253 "Self adhesive tapes" of which the secretariat 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of an identical text or by endorsement, at the latest by August 1996, and conflicting national standards shall be withdrawn at the latest by August 1996.

According to 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 the United Kingdom.

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## 1 Scope

This standard specifies a method to measure the total thickness of both the backing and adhesive layer comprising an adhesive tape.

The thickness is a useful factor in defining an adhesive tape and checking its uniformity. It is used in the determination of physical and electrical properties.

Since the width of adhesive tape shall be greater than the diameter of the pressure foot on the micrometer, and as this can be up to 12 mm, the method is therefore not strictly applicable to adhesive tapes having a width less than the diameter of the foot.

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.

## 2 Definition

For the purposes of this standard, the following definition applies :

**thickness of adhesive tape** : The vertical distance between the two surfaces of an adhesive tape.

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## 3 Principle

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

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## 4 Materials

Appropriate cleaning solvent.

## 5 Apparatus

Micrometer with a flat circular pressure foot of diameter between 8 mm and 12 mm, and a platform considerably larger than the foot. The pressure exerted by the foot on to the platform shall range from 50 kPa to 70 kPa.

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

## 6 Test sample and test pieces

Discard the 3 outer turns of adhesive tape from the roll before taking test pieces.

Perform the test on 5 test pieces from each roll. Each test piece shall be 50 mm long and the same width as the adhesive tape.

This width shall be greater than the diameter of the foot of the micrometer.

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.

## 7 Procedure

Place the test piece between the pressure foot and the platform of the micrometer, with the adhesive side facing downward and in contact with the platform. Take care not to entrap air bubbles. Lower the foot gently on to the surface of the adhesive tape and take the reading on the dial or vernier within two seconds. Make measurements at two points on each of the five test pieces taken from the roll.

Between each test, carefully clean the pressure foot using a suitable solvent, then reset the apparatus and check the zero before each operation.

## 8 Expression of results

Take as the thickness the arithmetic mean (average) of the ten measurements made. Express this in micrometres to the nearest micrometre.

## 9 Test report iTeh STANDARD PREVIEW

The test report shall include the following information: (standards.iteh.ai)

- a) a reference to this European Standard ;  
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- b) all information necessary to identify the test sample ;
- c) the date of the test ;
- d) the results obtained ;
- e) any operation not specified in this European Standard which can influence the results.