

# SLOVENSKI STANDARD SIST EN 12034:1997

01-avgust-1997

## Samolepilni trakovi - Merjenje dolžine lepilnega traku v svitku

Self-adhesive tapes - Measurement of the length of a roll of adhesive tape

Klebebänder - Messung der Länge einer Klebebandrolle

Rubans auto-adhésifs - Mesure de la longueur d'un rouleau de ruban adhésif

Ta slovenski standard je istoveten z: (standards.iteh.ai) EN 12034:1996

SIST EN 12034:1997

https://standards.iteh.ai/catalog/standards/sist/04179b93-5f1f-42fe-8863-4f65266ac5b0/sist-en-12034-1997

ICS:

83.180 Lepila Adhesives

SIST EN 12034:1997 en

SIST EN 12034:1997

# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 12034:1997</u> https://standards.iteh.ai/catalog/standards/sist/04179b93-5f1f-42fe-8863-4f65266ac5b0/sist-en-12034-1997 **EUROPEAN STANDARD** 

EN 12034

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1996

ICS 83.180

Descriptors:

adhesive tapes, tests, dimensional measurement, length, elongation at break

English version

Self adhesive tapes - Measurement of the length of a roll of adhesive tape

Rubans auto-adhésifs - Mesure de la longueur ARD PRE Klebebandrolle d'un rouleau de ruban adhésifn STANDARD PRE Klebebandrolle (standards.iteh.ai)

essung der Länge einer

<u>SIST EN 12034:1997</u> https://standards.iteh.ai/catalog/standards/sist/04179b93-5f1f-42fe-8863-4f65266ac5b0/sist-en-12034-1997

This European Standard was approved by CEN on 1996-04-19. 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.

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 Central Secretariat has the same status as the official versions.

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

# CEN

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

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

Page 2 EN 12034:1996

## **Contents**

Fore	eword	3
1	Scope	4
2	Principle	4
3	Apparatus (see figure 1)	
4	Test piece	4
5	Procedure	4
6	Expression of results	5
7	Test report	5

# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 12034:1997</u> https://standards.iteh.ai/catalog/standards/sist/04179b93-5f1f-42fe-8863-4f65266ac5b0/sist-en-12034-1997

Page 3 EN 12034:1996

### Foreword

This European Standard has been prepared by the 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 November 1996, and conflicting national standards shall be withdrawn at the latest by November 1996.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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.

# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 12034:1997</u> https://standards.iteh.ai/catalog/standards/sist/04179b93-5f1f-42fe-8863-4f65266ac5b0/sist-en-12034-1997 Page 4 EN 12034:1996

#### 1 Scope

This standard specifies a method to measure the length of adhesive tape on a roll.

For non extensible adhesive tapes the length measured by this method shall be the same as the length after unrolling. For extensible adhesive tapes the length after unrolling shall be greater if the adhesive tape is stretched irreversibly by unrolling. It is also possible for an extensible adhesive tape to measure less after unrolling if stress built in during manufacture recovers after unrolling.

This is important for all adhesive tapes with elongation at break of 80 % or greater.

Provision is made for either including in or excluding from the total length the length of that portion of adhesive tape that is in direct contact with the core.

#### 2 **Principle**

The length is calculated from a measurement of the number of turns of adhesive tape on the roll and a measurement of the outer circumference of the roll of adhesive tape and the outer circumference of the core.

# Apparatus (see figure 1) NDARD PREVIEW 3 Measuring device (standards.iteh.ai)

## 3.1

Which is capable of counting both whole revolutions and part revolutions which is continuously driven by a spindle. The spindle carries a suitable locking device by which means a wedge shaped shaft to suit the various internal diameters of cores of the rolls of adhesive tape can be quickly fitted. (The wedge shaped shaft, for example, for a nominal 25 mm internal diameter core will go from 24,5 mm diameter to 26,5 mm diameter over a shaft length of 50 mm.)

#### 3.2 Measuring tape

A narrow, flexible, steel tape graduated in mm.

#### 4 Test piece

One roll of adhesive tape.

#### 5 **Procedure**

### Standard test conditions

The test shall be carried out at 23 °C ± 2 °C and 50 % ± 5 % relative humidity.

- **5.2** Measure the circumference in millimeters  $(C_R)$  of the roll by means of a steel tape, applying the steel tape to the roll like a belt.
- **5.3** Mount the roll on the wedge shaped shaft of the counter. Set the counter to zero and pull the adhesive tape from the roll in a direction perpendicular to the counter spindle. Remove all the adhesive tape from the core and record N the number of revolutions (to the nearest tenth of a revolution) as read from the counter when the last layer of adhesive tape has left the core.
- **5.4** Measure the circumference of the core in millimeters (C<sub>0</sub>).

### 6 Expression of results

Calculate L the length of the adhesive tape as follows:

L (metres) = 
$$\frac{N}{2000}$$
 (C<sub>R</sub> + C<sub>0</sub>)

If the length of adhesive tape in contact with the core is not to be included in the total length, then:

L (metres) = 
$$\frac{N}{2000} (C_{8}ta_{0}) a_{1000}^{C_{0}} iteh.ai)$$

SIST EN 12034:1997

7 **Test report** https://standards.iteh.ai/catalog/standards/sist/04179b93-5fl f-42fe-8863-4f65266ac5b0/sist-en-12034-1997

The test report shall include the following information:

- a) a reference to this European Standard;
- 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 may influence the results.

Page 6 EN 12034:1996

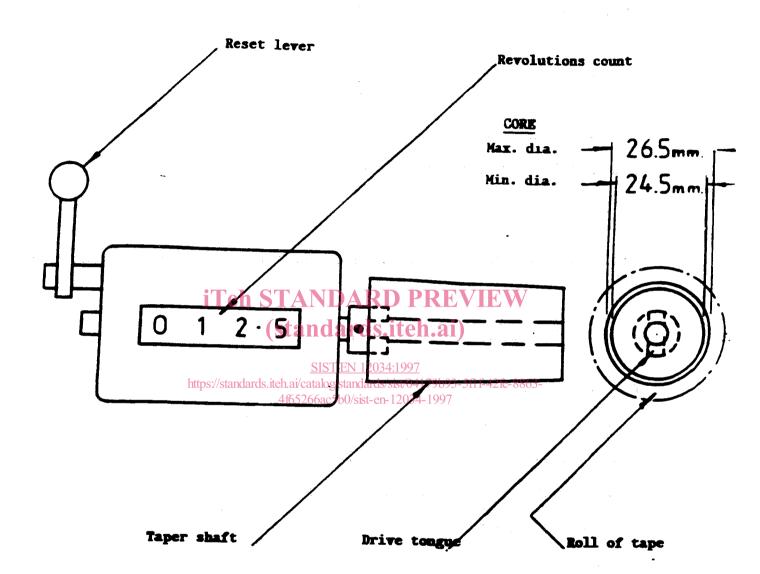


Figure 1 : Measuring device