



**SLOVENSKI STANDARD**  
**SIST EN 12026:1997**  
**01-avgust-1997**

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**Samolepilni trakovi - Merjenje lepilne sile pri hitrem odvijanju**

Self-adhesive tapes - Measurement of the unwinding force at high speed

Klebebänder - Messung der Abrollkraft bei hoher Geschwindigkeit

Rubans auto-adhésifs - Mesure de la force de déroulement a grande vitesse

**Ta slovenski standard je istoveten z: EN 12026:1996**

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**ICS:**

83.180          Lepila                                  Adhesives

**SIST EN 12026:1997**                                  **en**

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EUROPEAN STANDARD

EN 12026

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1996

ICS 83.180

Descriptors: adhesive tapes, unwinding, tests, tensile strength

English version

**Self adhesives tapes - Measurement of the  
unwinding force at high speed**Rubans auto-adhésifs - Mesure de la force de  
déroulement à grande vitesseKlebebänder - Messung der Abrollkraft bei hoher  
Geschwindigkeit**(standards.iteh.ai)**SIST EN 12026:1997<https://standards.iteh.ai/catalog/standards/sist/23be0633-600c-4366-abce-42d992a273ce/sist-en-12026-1997>

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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

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## 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.

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## 1 Scope

This standard specifies a method to measure the force required to unwind a roll of adhesive tape at high speed under prescribed conditions.

## 2 Principle

Mount a roll of adhesive tape on a core which can rotate without noticeable friction, joined to a suitable testing machine which enables the adhesive tape to be unwound at a constant speed and determine the unwinding force required under the test conditions.

## 3 Apparatus

**Unwinding equipment** : Consisting of a machine allowing adhesive tapes to be unwound at a constant speed under the following conditions :

- unwinding speed : can vary between 15 to 120 m/min  $\pm$  3 %. Where there is no variable speed, the following speed will be predetermined : 30 m/min  $\pm$  3 % and 60 m/min  $\pm$  3 % ;
- a measurement scale reading : at least 0 to 10 N ; 0 to 100 N maximum, capable of being read to the nearest 50 cN ;
- the accuracy of the equipment shall be  $\pm$  1 % of the range of the measurement scale.

## 4 Test pieces

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The test pieces shall consist of rolls of adhesive tape typically measuring between 6 and 50 mm in width and at least 100 m long.

The rolls to be tested shall be conditioned for 24 hours at 23 °C  $\pm$  2 °C and 50 %  $\pm$  5 % relative humidity prior to testing.

Discard the first 3 turns of each roll of before testing.

## 5 Procedure

### 5.1 Standard test conditions

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

**5.2** Place the roll on the unwinding machine. Fix the free end into the clamp provided and start unwinding at the desired speed.

**5.3** Read the unwinding force required every 15 s from the beginning of the unwinding process. Make at least 3 readings.

## 6 Expression of results

6.1 Record the average of the values taken as being the value of the unwinding force.

6.2 Express the results in N/cm width of adhesive tape, recording the unwinding speed used and the diameter of the core.

## 7 Test report

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 ;
- f) any operation not specified in this European Standard, which may influence the results.

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