



SLOVENSKI STANDARD
SIST EN 1944:1997
01-avgust-1997

Samolepilni trakovi - Merjenje lepilne sile pri počasnem odvijanju

Self-adhesive tapes - Measurement of unwind adhesion at low speed

Klebebänder - Messung der Abrollkraft bei niedriger Geschwindigkeit

Rubans auto-adhésifs - Mesure de la force de déroulement à faible vitesse

Ta slovenski standard je istoveten z: EN 1944:1996

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ICS:

83.180 Lepila Adhesives

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EUROPEAN STANDARD

EN 1944

NORME EUROPÉENNE

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February 1996

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English version

**Self adhesive tapes - Measurement of unwind
adhesion at low speed**Rubans auto-adhésifs - Mesure de la force de
déroulement à faible vitesseKlebebänder - Messung der Abrollkraft bei
niedriger Geschwindigkeit**(standards.iteh.ai)**SIST EN 1944:1997<https://standards.iteh.ai/catalog/standards/sist/de0e2e1e-e827-4882-b5b9-a127993afe7a/sist-en-1944-1997>

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

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

Contents

Foreword..... 3

1 Scope 4

2 Definition 4

3 Principle 4

4 Apparatus 4

5 Test pieces 4

6 Procedure..... 5

7 Expression of results 5

8 Test report..... 5

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<https://standards.iteh.ai/catalog/standards/sist/de0e2e1e-e827-4882-b5b9-a127993afe7a/sist-en-1944-1997>

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of an identical text or by endorsement, at the latest by August 1996, and conflicting national standards shall be withdrawn at the latest by August 1996.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 International 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

The standard specifies a method to measure the force required to unwind a roll of adhesive tape at low speed under standard test conditions.

2 Definition

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

unwind adhesion : The force required to unroll the tape under prescribed conditions.

3 Principle

The roll of adhesive tape is mounted on a mandrel so that it can turn without appreciable friction. The mandrel is fixed in one clamp of the tensile testing machine and the free end of the adhesive tape is fixed in the other clamp and the unrolling force is measured.

4 Apparatus

4.1 Tensile testing machine with the following characteristics

- the force shall be indicated with a maximum error of 2 % ;
- the speed of the moveable clamp shall be 300 mm/min \pm 30 mm/min ;
- the scale shall be such that the readings obtained are between 15 % and 85 % of the complete scale ;
- the clamps shall be serrated to prevent slipping or tearing of the adhesive tape ;
- if a pendulum machine is used, ensure that the pendulum can swing freely.

4.2 Mandrel and mounting : the assembly shall conform generally to that shown in fig. 1. The mandrel shall be capable of turning freely on its axis without appreciable friction.

5 Test pieces

Select for test a roll of adhesive tape at least 10 metres long and preferably 25 mm wide.

Condition the sample roll for 24 h at 23 °C \pm 2 °C and 50 % \pm 5 % relative humidity.

Discard at least 3 outer turns of adhesive tape from the roll.

6 Procedure

6.1 Standard test conditions :

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

6.2 Mount the roll of adhesive tape on the mandrel and fix the assembly in one clamp of the tensile testing machine. Reset the machine to zero.

Attach the free end of the adhesive tape in the other clamp. Set the speed at $300\text{ mm/min} \pm 30\text{ mm/min}$ and start the tensile test machine.

After the driven clamp has moved 25 mm, record the mean and the minimum and maximum values recorded during the next 1 minute. If necessary, continue the test until at least one complete turn of tape has been unwound.

Carry out 5 tests at approximately equal intervals (about 2 metres).

7 Expression of results

Express the results in newtons per centimetre width of adhesive tape.

Record the individual minimum and maximum readings and the arithmetic mean of the five values.

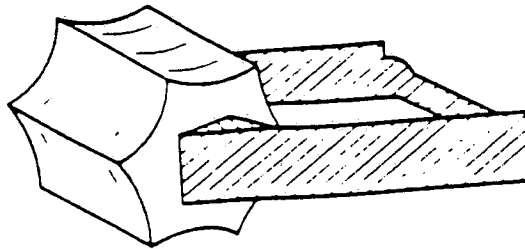
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Since the measurements made using different types of tensile testing machines (for example, electronic or pendulum) may not be directly comparable. The type of tensile testing machine used shall be indicated in the report.

8 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 type of tensile testing machine used ;
- d) the date of the test ;
- e) the results obtained ;
- f) any operation not specified in this European Standard, which can influence the results.



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Figure 1

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