



SLOVENSKI STANDARD SIST EN 12028:1997

01-avgust-1997

Samolepilni trakovi - Merjenje raztezka pri statični obremenitvi

Self-adhesive tapes - Measurement of elongation under static load

Klebebänder - Messung der Dehnung unter statischer Belastung

Rubans auto-adhésifs - Mesure de l'allongement sous charge statique

Ta slovenski standard je istoveten z: **EN 12028:1996**

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ICS:

83.180 Lepila Adhesives

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EUROPEAN STANDARD

EN 12028

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1996

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Descriptors: adhesive tapes, tension tests, measurement, elongation

English version

**Self adhesive tapes - Measurement of elongation
under static load**Rubans auto-adhésifs - Mesure de l'allongement
sous charge statiqueKlebebänder - Messung der Dehnung unter
statischer Belastung**iteh STANDARD PREVIEW**
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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.

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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

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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of an identical text or by endorsement, at the latest by November 1996, and conflicting national standards shall be withdrawn at the latest by November 1996.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 the method to measure the elongation of an adhesive tape under a low tension maintained over a relatively short period. This method is intended to give an indication to the user of the elongation of an adhesive tape under tension in use. This test is particularly applicable to adhesive tapes based on highly stretchable backings.

2 Principle

The adhesive tape is subjected to a relatively light load for a brief but definite period of time under standard test conditions. The elongation of the adhesive tape is then measured.

3 Apparatus

3.1 A rule, 1 metre long, graduated in millimetres, suitably supported in a vertical position with the zero marking uppermost.

3.2 A holder fixed at the zero end of the rule, enabling the adhesive tape to hang freely without touching the rule.

3.3 A second holder with suitable means for attaching mass, designed to avoid contact with the rule.

3.4 Appropriate mass to exert a force of 10 N/cm width of adhesive tape including the mass of the second holder and attachment.

3.5 Stop-watch or other timer.

4 Test samples and test pieces

Condition the sample roll for 24 hours at $23\text{ °C} \pm 2\text{ °C}$ and $50\% \pm 5\%$ relative humidity.

Discard the three outer turns of adhesive tape from the roll before taking test pieces. Take five test pieces 600 mm in length from the roll.

Remove the test pieces radially from the roll at approximately 300 mm/s. Then hang the test pieces vertically and condition for a further two hours in the standard test conditions in order to remove all strain and distortion due to unwinding.

5 Procedure

5.1 Standard test conditions

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

5.2 Fix the test piece to the two holders so that the distance between them is exactly 500 mm.

5.3 Place the assembly in the standard test conditions.

5.4 Add to the lower holder the appropriate mass for the width of adhesive tape, ensuring that the adhesive tape and attachments are not touching the rule. Allow to hang freely. At the end of one minute precisely, measure the length of adhesive tape between the two holders.

6 Expression of results

6.1 Record the results as the percentage increase in length of the adhesive tape.

6.2 Arrange the five readings in ascending numerical order ; take the median value as the result.

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 ;

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

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