



SLOVENSKI STANDARD
SIST EN 12035:1997
01-avgust-1997

Samolepilni trakovi - Plapolanje lepilnega traku

Self-adhesive tapes - Flagging of adhesive tape

Klebebänder - Ablösen von Klebebandenden (Flagging)

Rubans auto-adhésifs - Mise en drapeau des rubans adhésifs

Ta slovenski standard je istoveten z: EN 12035:1996

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ICS:

83.180 Lepila Adhesives

SIST EN 12035:1997 **en**

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EUROPEAN STANDARD

EN 12035

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 1996

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Descriptors: adhesive tapes, tests, windings, peeling, ends

English version

Self adhesive tapes - Flagging of adhesive tape

Rubans auto-adhésifs - Mise en drapeau des
rubans adhésifs Klebebänder - Ablösen von Klebebandenden
(Flagging)

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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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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of an identical text or by endorsement, at the latest by November 1996, and conflicting national standards shall be withdrawn at the latest by November 1996.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 flagging which may occur under specified conditions.

Knowledge of the flagging is useful in determining whether the adhesion of the adhesive tape to a backing of the same adhesive tape is adequate for applications where unwinding could occur. The flagging may occur under normal conditions, during the curing cycle of thermosetting adhesives or during immersion in liquids.

2 Definition

For the purposes of this standard the following definition applies :

flagging : A peeling away from the surface of tape backing of the end of a length of tape, particularly in a spiral wrap application.

3 Principle

A length of adhesive tape is wound upon itself round a thin rod with 1/4 turn overlap. After the prescribed time and conditions any lifting of the end is examined and, where necessary, measured.

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4 Apparatus

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4.1 A simple winding jig designed to hold a rod at each end with a means of rotating the rod so that the test piece may be wound thereon. The winding jig shall be attached to a rigid support with the rod held in a horizontal position.

4.2 Rods of any suitable metal or glass of 6 mm or 12 mm nominal diameter.

4.3 Attachable masses of 100, 200, 300 and 400 grammes.

4.4 A suitable method of measuring 2 mm to the nearest 0,5 mm.

5 Test pieces

Three strips of adhesive tape at least 100 mm long are removed from the roll by pulling radially, at a rate of approximately 300 mm/s, at intervals of 300 mm.

If the width of the adhesive tape is greater than 12 mm, the test piece shall be cut out of the middle of the adhesive tape to a width of 9 mm. The test piece shall be cut with a sharp tool to avoid tearing the edges.

NOTE : It is important to protect the adhesive surface from dust and to avoid touching it with the fingers or any other foreign object.

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 Preparation of rods

Prepare three rods according to the following procedure :

Mount a rod of 6 mm diameter (unless otherwise specified) in a horizontal position in the jig. Attach a mass in the ratio of 400 g for 12 mm adhesive tape width, e.g. 300 g for 9 mm width, to one end of the adhesive tape test piece. The test piece is held by the other end so that it is vertical and the adhesive side is brought into contact with the side of the rod. (See Figure 1).

Rotate the rod through 90° until the original point of contact "A" of the test piece with the rod is at the top. (See Figure 2). Cut the test piece with a sharp tool at this point leaving the mass suspended. The rod is then rotated one complete turn. Remove the mass and the test piece is cut at D by placing a sharp tool tangentially to the rod (See Figure 3), and tearing the test piece against the tool. This gives an overlap of $1/4$ turn, i.e. 90° .

6.3 Determination of flagging

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6.3.1 Flagging at the standard conditions

Condition the prepared test piece in the vertical position for 7 days at $23\text{ °C} \pm 2\text{ °C}$ and $50\% \pm 5\%$ relative humidity. SIST EN 12035:1997
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6.3.2 Flagging after thermosetting adhesive tapes

Condition the prepared test piece in the vertical position at the temperature and for the time prescribed by the manufacturer or in the relevant specification sheet.

6.3.3 Flagging after immersion in liquids

The prepared test piece, cured if necessary, shall be totally immersed in the vertical position in the liquid for 15 minutes at $23\text{ °C} \pm 2\text{ °C}$.

Thermosetting adhesive tapes shall be cured for the time and at the temperature prescribed and shall be allowed to cool to $23\text{ °C} \pm 2\text{ °C}$ before immersion in the liquid.

The liquids for immersion shall be agreed between by the manufacturer and the customer.

7 Expression of results

Measure the flag, i.e. the length of adhesive tape unwound (see Figure 4) to the nearest 1 mm. Should uneven flagging occur the greatest distance is measured.

Record the median value of the three readings as the amount of flagging.

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 date of the test ;
- d) if necessary the composition or the nature of the liquid used for the test ;
- e) the results obtained ;
- f) any operation not specified in this European Standard which may influence the results.

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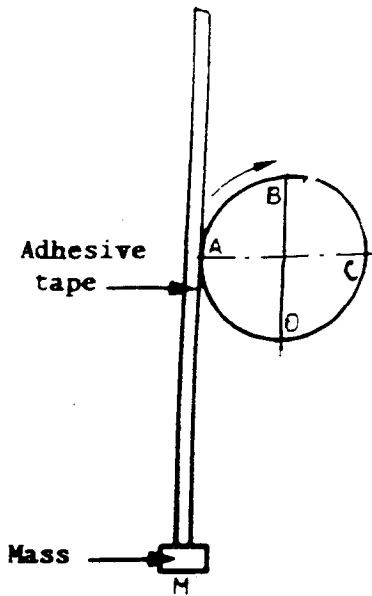


Figure 1

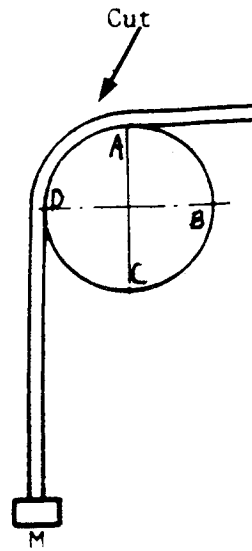


Figure 2

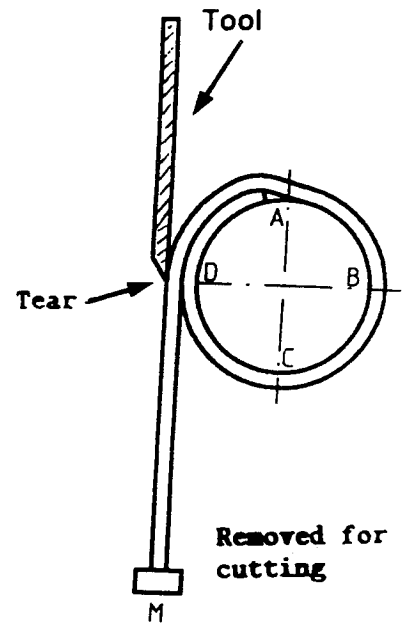


Figure 3

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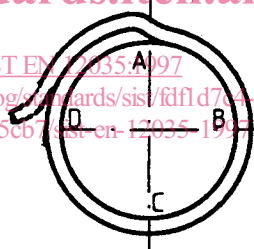


Figure 4 :

Figure 1, 2, 3 and 4 : Flagging test - Preparation of test piece