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**Samolepilni trakovi - Penetracija topila v zaščitne lepilne trakove**

Self-adhesive tapes - Solvent penetration into adhesive masking tapes

Klebebänder - Eindringen von Lösemitteln in Abdeckklebebänder

Rubans auto-adhésifs - Mesure de la pénétration des solvants dans les rubans adhésifs de masquage

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**ICS:**

83.180

Lepila

Adhesives

**SIST EN 12036:1997****en**

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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

Contents

Foreword.....3

1      Scope .....4

2      Definition .....4

3      Principle .....4

4      Materials .....4

5      Apparatus .....5

6      Test sample and test pieces .....5

7      Procedure.....5

8      Expression of results .....6

9      Test report.....6

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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of an identical text or by endorsement, at the latest by November 1996, and conflicting national standards shall be withdrawn at the latest by November 1996.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 give information regarding the resistance of the adhesive masking tape to paint solvents.

## 2 Definition

For the purposes of this standard the following definition applies :

**resistance to solvents** : The ability of a tape to resist exposure to such conditions after application and still perform satisfactorily.

## 3 Principle

Examination of a glass plate to which the adhesive masking tape has been applied for evidence of adhesive transfer after solvents have been applied to the exposed adhesive masking tape surface.

## 4 Materials

### 4.1 Solvent mixture No. 1

Butyl acetate	40 volumes
Toluene	25 volumes
Amyl acetate	10 volumes
Butyl alcohol	25 volumes

### 4.2 Solvent mixture No. 2

Xylene	90 volumes
Butyl alcohol	10 volumes

### 4.3 Cleaning materials

One of the following solvents :

methanol ;  
methyl ethyl ketone ;  
acetone ;  
toluene.

Solvents shall be of general purpose chemical grade.

### 4.4 Diacetone alcohol

### 4.5 Lint free cotton wool or tissue

## 5 Apparatus

5.1 Glass plate at least 150 mm long.

5.2 Polished cylindrical metal roller

This shall have a diameter of at least 50 mm and a mass corresponding to 2 kg per centimetre width of adhesive tape under test.

5.3 Dropper to dispense 0,04 ml of solutions.

## 6 Test sample and test pieces

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

Discard the three outer turns of adhesive tape from the roll before taking test pieces.

Take two test pieces at least 300 mm long from each sample roll.

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## 7 Procedure

7.1 Standard test conditions [SIST EN 12036:1997](https://standards.iteh.ai/catalog/standards/sist/4c9343d7-e83f-4ac4-89af-1f230694f35c/sist-12036-1996)

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

### 7.2 Preparation of plate

Wipe the test surface of the glass plate with a fresh piece of cotton wool or tissue saturated with diacetone alcohol. Dry the plate with fresh cotton wool, then wipe the test surface with a fresh piece of cotton wool saturated with one of the solvents given in clause 5.3. Dry the plate with fresh cotton wool. Maintain the plate at a temperature of  $23\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$  for at least 5 minutes before proceeding.

### 7.3 Application of test pieces

Apply a test piece of adhesive tape to the glass plate so that there are at least 150 mm of adhesive tape on the plate and at least 150 mm overhanging one end.

Apply the test piece progressively by gentle longitudinal finger strokes in such a way that the formation of air bubbles between adhesive tape and plate is avoided, without, however, exerting appreciable pressure on the adhesive tape.

The test piece shall be centred on the plate such that the edge of the test piece is parallel to the long edge of the plate. Pass the roller over the surface of the adhesive tape, to and fro, twice in each direction, at a speed of approximately 10 mm/s. Leave the adhesive tape adhered to the plate for 10 minutes in the standard test conditions and then test as described below.

Place five 0,04 ml quantities of solvent mixture No. 1 centrally on the test piece at 25 mm intervals, taking care to prevent the solvent mixture reaching the edges of the adhesive tape.

Allow the assembly to stand for 2 hours in draught-free atmosphere at a temperature of  $23\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ .

#### 7.4 Stripping of test piece of the plate

Remove the test piece from the plate, by pulling the overhanging end so that the test piece peels at right angles to the plate at a speed of approximately 25 mm in 10 seconds.

7.5 Make a similar test, on a different piece of adhesive tape, using solvent mixture No. 2.

### 8 Expression of results

Examine the plate and note the number of places on the test surface where a transfer of adhesive has occurred.

### 9 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.