



# SLOVENSKI STANDARD

## SIST EN 16284:2013

01-maj-2013

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### Embalaža - Prožne laminatne in plastične tube - Preskusne metode za določanje sile lepljivosti membrane

Packaging - Flexible laminate and plastic tubes - Test method to determine the adhesive strength of the membrane

Packmittel - Laminat- und Kunststofftuben - Prüfverfahren zur Bestimmung der Haftkraft der Membran

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Emballage - Tubes souples plastiques et tubes souples laminés - Méthode d'essai pour déterminer la force d'adhérence de la membrane

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**Ta slovenski standard je istoveten z: EN 16284:2013**

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#### **ICS:**

55.120

Pločevinke. Tube

Cans. Tins. Tubes

**SIST EN 16284:2013**

**en,fr,de**

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EUROPEAN STANDARD

**EN 16284**

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2013

ICS 55.120

English Version

## Packaging - Flexible laminate and plastic tubes - Test method to determine the adhesive strength of the membrane

Emballage - Tubes souples plastiques et tubes souples laminés - Méthode d'essai pour déterminer la force d'adhérence de la membrane

Packmittel - Laminat- und Kunststofftuben - Prüfverfahren zur Bestimmung der Haftkraft der Membran

This European Standard was approved by CEN on 21 December 2012.

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This European Standard exists 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 CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

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## Foreword

This document (EN 16284:2013) has been prepared by Technical Committee CEN/TC 261 “Packaging”, 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of an identical text or by endorsement, at the latest by August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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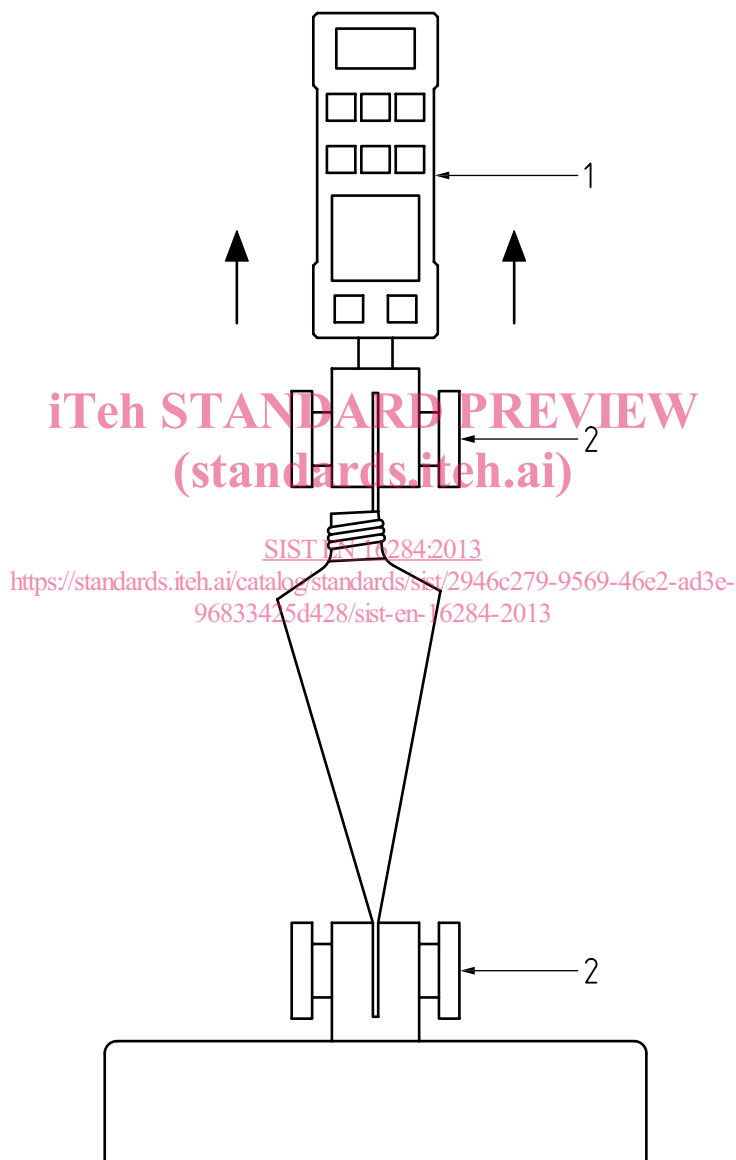
## EN 16284:2013 (E)

## 1 Scope

This European Standard is applicable to plastic and laminate tubes which have a peel-off membrane for tamper-evidence purposes. This membrane is made of either aluminium or plastic. A test is performed to ensure that the consumer can remove the membrane without excessive force leading to a completely opened orifice.

## 2 Equipment

Dynamometer (see Figure 1)



### Key

- 1 dynamometer
- 2 clamping device

Figure 1 — Dynamometer and clamping device

### 3 Method of operation

- a) attach the membrane to the dynamometer head;
- b) hold the component on the dynamometer plate (vice, clamp, etc.);
- c) the tearing speed shall be 300 mm/m;
- d) the tube shall be well clamped and the test device shall pull the membrane in an axial/vertical direction;
- e) the pulling device need not necessarily be centred to the tube opening: read the maximum value displayed.

### 4 Interpretation of results

A membrane is considered defective in the following cases:

- a) part of membrane stays on the tube and obstructs the opening (e.g. delamination of the membrane material);
- b) if there is an agreement between customer and supplier and the value does not conform to the limits of the specification.

### 5 Test report

The test report shall contain the following information:

- a) reference to this standard and, if necessary, a specification for the method of sampling and acceptance of the batch;
- b) the complete identification of the batch and of the tubes checked;
- c) the date of production;
- d) the number of tubes checked;
- e) the number of defects;
- f) the test result;
- g) all factors which could have affected the results or all operating details not specified in this standard;
- h) date, place of test and name of tester.

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