



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 12243:2000

ICS 61.040

**TOUCH AND CLOSE FASTENERS -  
DETERMINATION OF DIMENSIONAL CHANGE  
IN WASHING AND DRYING AND DRY  
CLEANING**

National Standards  
Authority of Ireland  
Glasnevin, Dublin 9  
Ireland

Tel: +353 1 807 3800  
Fax: +353 1 807 3838  
<http://www.nsai.ie>

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 12243

October 1999

ICS 61.040

English version

Touch and close fasteners - Determination of dimensional  
change in washing and drying and dry cleaning

Fermetures auto-agrippantes - Détermination du  
changement dimensionnel lors du lavage et du séchage ou  
lors du nettoyage à sec

Haftverschlüsse - Bestimmung der Maßänderung beim  
Waschen und Trocknen und Chemischreinigen

This European Standard was approved by CEN on 5 September 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. 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.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

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

## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 248 "Textiles and textile products", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by April 2000, and conflicting national standards shall be withdrawn at the latest by April 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

It is one of a series of standards for touch and close fasteners. Other standards in the series are as follows:

EN 1414 Touch and close fasteners - Cycling procedures for subsequent testing.

EN 1415 Touch and close fasteners - Behaviour of slit selvages.

EN 1416 Touch and close fasteners - Determination of curvature.

EN 12240 Touch and close fasteners - Determination of the overall effective width of tapes and the effective width of a closure.

EN 12241:1999 Touch and close fasteners - Method for closure prior to washing or dry cleaning.

EN 12242:1999 Touch and close fasteners - Determination of peel strength.

EN XXXX <sup>1)</sup> Touch and close fasteners - Determination of longitudinal shear strength.

EN XXXX <sup>1)</sup> Touch and close fasteners - Determination of vertical tension strength.

EN XXXX <sup>1)</sup> Touch and close fasteners - Resistance to fraying of tapes after cutting.

EN XXXX <sup>1)</sup> Touch and close fasteners - Specifications.

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<sup>1)</sup> In preparation

## 1 Scope

This European Standard specifies a method for determining the dimensional change in washing and drying or dry cleaning of touch and close fastener tapes.

## 2 Normative References

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 20139	Textiles - Standard atmospheres for conditioning and testing (ISO 139:1973).
EN 12241:1999	Touch and close fasteners - Method of closure prior to washing and drying or dry-cleaning.
EN ISO 3175	Textiles - Evaluation of stability to machine dry-cleaning (ISO 3175:1995)
EN 26330	Textiles - Domestic washing and drying procedures for textile testing (ISO 6330:1984)

## 3 Principle

The percentage change is determined in the length of touch and close fastener tapes after washing and drying or dry cleaning.

## 4 Apparatus

**4.1 Rule** marked in millimetres and longer than the greatest dimension being measured.

**4.2 Equipment for marking precise reference points** (e.g. indelible ink, threads, staples).

## 5 Test specimens

Take three male and three female tapes each of a minimum length 500 mm.

## **6 Conditioning**

Condition the test specimens for a minimum of 24h in accordance with the standard temperate atmosphere for testing as specified in EN 20139.

## **7 Procedure**

### **7.1 Marking**

Place each test specimen flat on the measuring surface and make a pair of marks on it at least 250mm apart in the length direction. Do not mark within 25mm of each end.

### **7.2 Measuring original length**

After the test specimens have been conditioned in accordance with clause 6, determine the original length as follows.

Place the test specimens with the pile facing down on a flat surface and remove any wrinkles without stretching the test specimen. Place the rule on the test specimen and record the distance between the pair of marks to an accuracy of at least 1 mm.

### **7.3 Washing and drying**

Close the tapes in accordance with EN 12241:1999, wash and dry them for the specified number of times in accordance with the procedure specified in EN 26330.

### **7.4 Dry cleaning**

Close the tapes in accordance with EN 12241 and dry clean the closed specimens for the specified number of times in accordance with the procedure specified in EN ISO 3175.

### **7.5 Measuring final length**

Open the test specimens, re-condition and measure the final length as follows:

Place the test specimens with the pile facing down on a flat surface and remove any wrinkles without stretching the test specimen. Place the rule on the test specimen and record the distance between the pair of marks to an accuracy of at least 1 mm.

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