

## **Textiles - Monofilaments - Determination of thermal shrinkage**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13844:2003 sisaldab Euroopa standardi EN 13844:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.02.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13844:2003 consists of the English text of the European standard EN 13844:2002.</p> <p>This document is endorsed on 18.02.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> This European Standard specifies three methods for the determination of shrinkage: Determination of shrinkage in hot air under tension; Determination of shrinkage in hot air without tension; Determination of shrinkage in hot water without tension</p>	<p><b>Scope:</b> This European Standard specifies three methods for the determination of shrinkage: Determination of shrinkage in hot air under tension; Determination of shrinkage in hot air without tension; Determination of shrinkage in hot water without tension</p>
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**Võtmesõnad:** filaments, mass, materials testing, mathematical calculations, measuring equipment, monofil, monofilament yarns, sampling, sampling methods, shrinkage behaviour, testing, textile fibres, textile products, textiles, weight, weights, yarn, yarn count

ICS 59.060.20

English version

## Textiles - Monofilaments - Determination of thermal shrinkage

Textiles - Monofilaments - Détermination du retrait à la  
chaleur

Textilien - Monofile - Bestimmung des  
Wärmeschrumpfverhaltens

This European Standard was approved by CEN on 23 October 2002.

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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 Management Centre 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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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## Foreword

This document (EN 13844:2002) 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 June 2003, and conflicting national standards shall be withdrawn at the latest by June 2003.

In this European Standard the Annexes A and B are informative.

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## Introduction

This European Standard specifies methods for the determination of thermal shrinkage of monofilaments. Shrinkage is one of the main properties, which characterise polymeric monofilaments.

## 1 Scope

This European Standard specifies three methods for the determination of shrinkage:

- Determination of shrinkage in hot air under tension;
- Determination of shrinkage in hot air without tension;
- Determination of shrinkage in hot water without tension.

## 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 (including amendments).

EN 20139, *Textiles — Standard atmospheres for conditioning and testing (ISO 139:1973)*

EN 13392:2001, *Textiles — Monofilaments - Determination of linear density*

## 3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

### 3.1

#### **monofilament**

yarn made with only one filament

### 3.2

#### **linear density**

mass per unit length of a monofilament expressed in tex or its multiples or submultiples

[EN 13392:2001]

NOTE 1 tex = 1 g/1000 m.

### 3.3

#### **thermal shrinkage**

decrease in monofilament length caused by exposure to heat, expressed as a percentage of its original length

### 3.4

#### **tension**

force applied to a test specimen during a test

### 3.5

#### **package**

method of presentation of the monofilament, e.g. spool, tube, cone