

Determination of dimensional characteristics of sleeping bags - Part 2: Thickness and elastic recovery

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13538-2:2002 sisaldab Euroopa standardi EN 13538-2:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 13.12.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13538-2:2002 consists of the English text of the European standard EN 13538-2:2002.</p> <p>This document is endorsed on 13.12.2002 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>Käsitlusala: This European Standard specifies a method for the determination of the thickness and elastic recovery of sleeping bags filled with feathers and/or down</p>	<p>Scope: This European Standard specifies a method for the determination of the thickness and elastic recovery of sleeping bags filled with feathers and/or down</p>
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Võtmesõnad: dimensional sta, f, measurement, properties, recreation, recreational equipment, sampling, sampling methods, sleeping bags, specification (approval), specifications, sports equipment, testing, tests, thickness, tolerances, tolerances (measurement), woven fabrics

English version

Determination of dimensional characteristics of sleeping bags - Part 2: Thickness and elastic recovery

Détermination des caractéristiques dimensionnelles des
sacs de couchage - Partie 2: Epaisseur et reprise élastique

Bestimmung der Maßhaltigkeit von Schlafsäcken - Teil 2:
Dicke und elastische Erholung

This European Standard was approved by CEN on 29 May 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.

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Foreword

This document EN 13538-2:2002 has been prepared by Technical Committee CEN/TC 136 "Sports, playground and other recreational equipment", the secretariat of which is held by DIN.

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 February 2003, and conflicting national standards shall be withdrawn at the latest by February 2003.

The text is based on an earlier draft prepared by CEN/TC 222 "Feather and down".

This European Standard consists of a number of parts as follows:

EN 13538-1, *Internal dimensions*;

EN 13538-2, *Thickness and elastic recovery*;

EN 13538-3, *Volume under load and easiness of packing*.

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.

1 Scope

This European Standard specifies a method for the determination of the thickness and elastic recovery of sleeping bags filled with feathers and/or down.

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)*.

3 Terms and definitions

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

3.1 thickness

distance between the face and the back of a sleeping bag under a pre-load of (5 ± 1) Pa

3.2 elastic recovery

difference between the thickness measured under a pressure of 30 Pa during a given time and the thickness measured under a pressure of 5 Pa after a given time of recovery. This difference is referred to the thickness of 5 Pa and expressed in percentage

4 Principle

4.1 Thickness

Measurement of the distance between a reference surface on which the sleeping bag rests and an indenter exerting a pressure of (5 ± 1) Pa on the area under test.

4.2 Elastic recovery

Measurement of the difference of the thickness under a pressure of 30 Pa, after a compression during 60 s at 300 Pa, and a pressure of 5 Pa, divided by the thickness under the pressure of 5 Pa. The ratio is expressed as a percentage.

5 Apparatus

5.1 Rigid and plane reference surface at least as large as the sleeping bag.

5.2 Rigid and plane circular indenter with an area of (800 ± 8) cm².

The indenter is for instance counterbalanced by a counterweight having a mass such that the system is in indifferent equilibrium. The indenter and the counterweight are connected by means of a thread which moves along a set of pulleys fitted on precision roller bearings.

5.3 Measuring device having a scale with 0,1 mm graduations, for measuring the distance between the reference surface and the indenter.