

Geosynthetics - Determination of thickness at specified pressures - Part 1: Single layers

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 9863-1:2005 sisaldab Euroopa standardi EN ISO 9863-1:2005 ingliskeelset teksti. Käesolev dokument on jõustatud 28.04.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 9863-1:2005 consists of the English text of the European standard EN ISO 9863-1:2005. This document is endorsed on 28.04.2005 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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Käsitlusala: This part of EN ISO 9863 specifies a method for the determination of the thickness of geosynthetics at specified pressures and defines the pressure at which the nominal thickness is determined.	Scope: This part of EN ISO 9863 specifies a method for the determination of the thickness of geosynthetics at specified pressures and defines the pressure at which the nominal thickness is determined.
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Võtmesõnad:

English version

Geosynthetics

Determination of thickness at specified pressures

Part 1: Single layers

(ISO 9863-1:2005)

Géosynthétiques – Détermination de
l'épaisseur à des pressions spécifiées –
Partie 1: Couches individuelles
(ISO 9863-1:2005)

Geokunststoffe – Bestimmung der
Dicke unter festgelegten Drücken –
Teil 1: Einzellagen (ISO 9863-1:2005)

This European Standard was approved by CEN on 2004-11-15.

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

The European Standards exist 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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CEN

European Committee for Standardization
Comité Européen de Normalisation
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Foreword

This document (EN ISO 9863-1:2005) has been prepared by Technical Committee CEN/TC 189 "Geosynthetics", the secretariat of which is held by IBN, in collaboration with Technical Committee ISO/TC 221 "Geosynthetics".

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 2005, and conflicting national standards shall be withdrawn at the latest by August 2005.

This document supersedes EN 964-1:1995.

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

1 Scope

This part of EN ISO 9863 specifies a method for the determination of the thickness of geosynthetics at specified pressures and defines the pressure at which the nominal thickness is determined.

The test results are intended for identification purposes and for use in technical data sheets and/or as part of other test methods, e.g. tests of hydraulic properties.

The method is applicable to all geosynthetics.

NOTE 1 Normally the thickness of geosynthetics is determined by measuring one layer of the product. When two or more layers are used on top of each other in a design, the test may be made in accordance with this standard with the agreed number of layers instead of one.

NOTE 2 When testing structured geosynthetics, care should be taken to ensure that the results are meaningful for the particular product.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 554 *Standard atmospheres for conditioning and/or testing — Specifications.*

EN ISO 9862, *Geosynthetics — Sampling and preparation of test specimens (ISO 9862:2005).*

3 Terms and definitions

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

3.1

thickness

distance between a reference plate on which the specimen rests and the contacting face of a parallel presser-foot applying a given pressure to the specimen

3.2

nominal thickness

for polymeric and bituminous geosynthetic barriers of uniform thickness, the thickness determined when a pressure of $(20 \pm 0,1)$ kPa is applied to the specimen

for all other geosynthetics, the thickness determined when a pressure of $(2 \pm 0,01)$ kPa is applied to the specimen

for textured polymeric and bituminous geosynthetic barriers, the thickness determined when a force of $(0,6 \pm 0,1)$ N is applied to the specimen

4 Principle

4.1 The thickness of a number of individual specimens of a geosynthetic is measured as the distance between the reference plate on which the specimen rests and the contacting face of a parallel, circular presser-foot exerting a specified pressure on an area of defined size within a larger area of the specimen.

4.2 At each specified pressure, the result of the test is given as the mean of the values obtained.