



SLOVENSKI STANDARD
SIST EN ISO 11501:2004

01-oktober-2004

**Polimerni materiali - Filmi in folije - Ugotavljanje spremembe mer pri segrevanju
(ISO 11501:1995)**

Plastics - Film and sheeting - Determination of dimensional change on heating (ISO 11501:1995)

Kunststoffe - Folien und Bahnen - Bestimmung der Maßänderung beim Erwärmen (ISO 11501:1995)

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Plastiques - Film et feuille - Détermination de la variation dimensionnelle apres chauffage (ISO 11501:1995)

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Ta slovenski standard je istoveten z: EN ISO 11501:2004

ICS:

83.140.10 Filmi in folije

Films and sheets

SIST EN ISO 11501:2004

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 11501

July 2004

ICS 83.140.10

English version

Plastics - Film and sheeting - Determination of dimensional change on heating (ISO 11501:1995)

Plastiques - Film et feuille - Détermination de la variation dimensionnelle après chauffage (ISO 11501:1995)

This European Standard was approved by CEN on 21 June 2004.

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, 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.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 11501:2004 (E)

Foreword

The text of ISO 11501:1995 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11501:2004 by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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 January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

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.

Endorsement notice

The text of ISO 11501:1995 has been approved by CEN as EN ISO 11501:2004 without any modifications.

NOTE Normative references to International Standards are listed in Annex ZA (normative).

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Annex ZA (normative)

Normative references to international publications with their relevant European publications

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).

NOTE Where an International Publication has been modified by common modifications, indicated by (mod.), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 291	1997	Plastics - Standard atmospheres for conditioning and testing	EN ISO 291	1997

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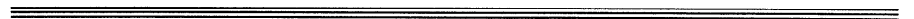
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INTERNATIONAL
STANDARD

ISO
11501

First edition
1995-09-15



**Plastics — Film and sheeting —
Determination of dimensional change on
heating**

iTeh STANDARD PREVIEW

(standards.iteh.ai)

*Plastiques — Film et feuille — Détermination de la variation
dimensionnelle après chauffage*

SIST EN ISO 11501:2004

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Reference number
ISO 11501:1995(E)

ISO 11501:1995(E)**Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 11501 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

Annex A of this International Standard is for information only.

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International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

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Plastics — Film and sheeting — Determination of dimensional change on heating

1 Scope

This International Standard specifies a method of determining the dimensional change, in the longitudinal and transverse directions, of plastic films and sheeting on heating. This method may be applied to plastic sheets, whether qualified as thermoshrinking or not, up to 1 mm thick.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 291:1977, *Plastics — Standard atmospheres for conditioning and testing*.

3 Principle

The test consists of

- measuring the initial lengths of two gauge lengths marked on each specimen in the longitudinal and in the transverse direction;
- heating the specimens for a specified time at a specified temperature on a kaolin bed in an oven;
- measuring the longitudinal and transverse gauge lengths again after cooling, and subsequently calculating the changes in the gauge lengths.

4 Apparatus

4.1 Circulating-air oven, of such a size that the total volume of the test assemblies (kaolin beds plus test specimens) does not exceed 10 % of the free space in the oven. Provision shall be made for placing the test assemblies on shelves so that they are not less than 50 mm from each other and from the sides of the oven.

Provision shall be made for circulation of air through the oven at a rate which gives a minimum of six air changes per hour. The temperature of the oven shall be thermostatically controlled to maintain the temperature of the test assemblies within ± 2 °C of the specified temperature (within ± 1 °C if the specified temperature is less than 100 °C).

4.2 Metal container, containing a kaolin bed of depth approximately 20 mm. Its other dimensions shall be such that the specimens can be placed flat within it, without deformation, and such that it can be placed in the oven.

4.3 Temperature-measuring device, whose tip can be immersed in the kaolin bed.

4.4 Graduated scale, capable of measuring to the nearest 0,5 mm.

4.5 Stopwatch.

5 Test specimens

Samples of film or sheet shall be conditioned for a minimum of 2 h in one of the standard atmospheres specified in ISO 291 prior to cutting out and measuring test specimens.

Three specimens shall be prepared, with approximate dimensions of 120 mm × 120 mm, cut from the cen-

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