

SLOVENSKI STANDARD

SIST EN ISO 291:2006

01-april-2006

BUXca Yý U
SIST EN ISO 291:1999

Polimerni materiali – Standardne atmosfere za kondicioniranje in preskušanje (ISO 291:2005)

Plastics - Standard atmospheres for conditioning and testing (ISO 291:2005)

Kunststoffe - Normalklimate für Konditionierung und Prüfung (ISO 291:2005)

Plastiques - Atmospheres normales de conditionnement et d'essai (ISO 291:2005)

Ta slovenski standard je istoveten z: EN ISO 291:2005

ICS:

83.080.01	Polimerni materiali na splošno	Plastics in general
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SIST EN ISO 291:2006

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 291

November 2005

ICS 83.080.01

Supersedes EN ISO 291:1997

English Version

**Plastics - Standard atmospheres for conditioning and testing
(ISO 291:2005)**

Plastiques - Atmosphères normales de conditionnement et
d'essai (ISO 291:2005)

Kunststoffe - Normalklimate für Konditionierung und
Prüfung (ISO 291:2005)

This European Standard was approved by CEN on 4 November 2005.

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

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EN ISO 291:2005 (E)**Foreword**

This document (EN ISO 291:2005) has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with 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 May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

This document supersedes EN ISO 291:1997.

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 291:2005 has been approved by CEN as EN ISO 291:2005 without any modifications.

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INTERNATIONAL STANDARD

**ISO
291**

Third edition
2005-11-15

Plastics — Standard atmospheres for conditioning and testing

Plastiques — Atmosphères normales de conditionnement et d'essai

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Contents

Page

Foreword.....	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	1
4 Principle	2
5 Standard atmosphere	2
6 Classes of standard atmosphere	2
7 Standard and ambient temperatures	3
8 Procedure	3
Annex A (normative) Attainment of moisture equilibrium by plastics in a conditioning atmosphere.....	4
Annex B (informative) Background Information	6
Bibliography	8

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 291 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 6, *Ageing, chemical and environmental resistance*.

This third edition cancels and replaces the second edition (ISO 291:1997), which has been technically revised. It also incorporates the Technical Corrigendum ISO 291:1997/Cor 1:1998.

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Plastics — Standard atmospheres for conditioning and testing

1 Scope

This International Standard sets out specifications relating to the conditioning and testing of all plastics and all types of test specimen at constant atmospheric conditions.

Special atmospheres applicable to a particular test or material or simulating a particular climatic environment are not included in this International Standard.

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 62, *Plastics — Determination of water absorption*

3 Terms and definitions

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

3.1

standard atmosphere

preferred constant atmosphere for which specific air temperature and humidity values, as well as limit ranges for atmospheric pressure and air-circulation velocity, are specified, the air not having any significant additional constituents and the atmosphere not being subject to any significant additional radiation influences

NOTE 1 Standard atmospheres permit a defined state to be attained and maintained for samples or specimens.

NOTE 2 Standard atmospheres correspond to the average atmospheric conditions in laboratories and can be established in conditioning (controlled atmosphere) cabinets, chambers or rooms.

3.2

conditioning atmosphere

constant atmosphere in which a sample or test specimen is kept before being subjected to a test

3.3

test atmosphere

constant atmosphere to which a sample or test specimen is exposed throughout a test

3.4

conditioning

one or more operations intended to bring a sample or test specimen into a state of equilibrium with regard to temperature and humidity

3.5

conditioning procedure

combination of the conditioning atmosphere and the period of conditioning