



SLOVENSKI STANDARD
SIST EN ISO 22088-2:2006
01-december-2006

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Plastics - Determination of resistance to environmental stress cracking (ESC) - Part 2: Constant tensile load method (ISO 22088-2:2006)

Kunststoffe - Bestimmung der Beständigkeit gegen umgebungsbedingte Spannungsrissbildung (ESC) - Teil 2: Zeitstandzugversuch (ISO 22088-2:2006)

iTeh STANDARD PREVIEW

(fissuration sous contrainte)
Plastiques - Détermination de la fissuration sous contrainte dans un environnement donné (ESC) - Partie 2: Méthode sous contrainte de traction constante (ISO 22088-2:2006)

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Ta slovenski standard je istoveten z: EN ISO 22088-2:2006

ICS:

83.080.01	Polimerni materiali na splošno	Plastics in general
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en,fr,de

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English Version

Plastics - Determination of resistance to environmental stress
cracking (ESC) - Part 2: Constant tensile load method (ISO
22088-2:2006)

Plastiques - Détermination de la fissuration sous contrainte
dans un environnement donné (ESC) - Partie 2: Méthode
sous contrainte de traction constante (ISO 22088-2:2006)

Kunststoffe - Bestimmung der Beständigkeit gegen
umgebungsbedingte Spannungsrissbildung (ESC) - Teil 2:
Zeitstandzugversuch (ISO 22088-2:2006)

This European Standard was approved by CEN on 21 July 2006.

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, Romania, 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

Foreword

This document (EN ISO 22088-2:2006) 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 February 2007, and conflicting national standards shall be withdrawn at the latest by February 2007.

This document supersedes EN ISO 6252:1997.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Endorsement notice

The text of ISO 22088-2:2006 has been approved by CEN as EN ISO 22088-2:2006 without any modifications.

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**Plastics — Determination of resistance to
environmental stress cracking (ESC) —**

**Part 2:
Constant tensile load method**

*Plastiques — Détermination de la fissuration sous contrainte dans un
environnement donné (ESC) —
Partie 2: Méthode sous contrainte de traction constante*

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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 22088-2 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 6, *Ageing, chemical and environmental resistance*.

It cancels and replaces ISO 6252:1992, which has been technically revised.

ISO 22088 consists of the following parts, under the general title *Plastics — Determination of resistance to environmental stress cracking (ESC)*:

- iTeh STANDARD PREVIEW**
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- [SIST EN ISO 22088-2:2006](https://standards.iteh.ai/catalog/standards/sist/3e130afc-69f9-42b6-86f2-9e82dccb7a0f/sist-en-iso-22088-2-2006)
<https://standards.iteh.ai/catalog/standards/sist/3e130afc-69f9-42b6-86f2-9e82dccb7a0f/sist-en-iso-22088-2-2006>
- *Part 1: General guidance* (replacement of ISO 6252:1992)
 - *Part 2: Constant tensile load method* (replacement of ISO 4599:1986)
 - *Part 3: Bent strip method* (replacement of ISO 4600:1992)
 - *Part 4: Ball or pin impression method* (new test method)
 - *Part 5: Constant tensile deformation method* (new test method)
 - *Part 6: Slow strain rate method* (new test method)

Plastics — Determination of resistance to environmental stress cracking (ESC) —

Part 2: Constant tensile load method

1 Scope

This part of ISO 22088 specifies methods for the determination of environmental stress cracking (ESC) of thermoplastics when they are subjected to a constant tensile load in the presence of chemical agents.

It is applicable to test specimens prepared by moulding and/or machining and can be used both for the assessment of ESC of plastic materials exposed to different environments, and for the determination of ESC of different plastic materials exposed to a specific environment.

This is essentially a ranking test and is not intended to provide data to be used for design or performance prediction.

NOTE Methods for the determination of environmental stress cracking by means of a constant-strain test are specified in ISO 22088-3, ISO 22088-4 and ISO 22088-5.

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 293, *Plastics — Compression moulding of test specimens of thermoplastic materials*

ISO 294-1, *Plastics — Injection moulding of test specimens of thermoplastic materials — Part 1: General principles, and moulding of multipurpose and bar test specimens*

ISO 527-2:1993, *Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics*

ISO 2818, *Plastics — Preparation of test specimens by machining*

ISO 3167, *Plastics — Multipurpose test specimens*

ISO 22088-1:2006, *Plastics — Determination of resistance to environmental stress cracking (ESC) — Part 1: General guidance*