



SLOVENSKI STANDARD
oSIST prEN ISO 75-1:2012
01-april-2012

**Polimerni materiali - Ugotavljanje temperature upogiba pod obremenitvijo - 1. del:
Splošna preskusna metoda (ISO/DIS 75-1:2012)**

Plastics - Determination of temperature of deflection under load - Part 1: General test method (ISO/DIS 75-1:2012)

Kunststoffe - Bestimmung der Wärmeformbeständigkeitstemperatur - Teil 1: Allgemeines Prüfverfahren (ISO/DIS 75-1:2012)

Plastiques - Détermination de la température de fléchissement sous charge - Partie 1: Méthode d'essai générale (ISO/DIS 75-1:2012)

Ta slovenski standard je istoveten z: prEN ISO 75-1

ICS:

83.080.01	Polimerni materiali na splošno	Plastics in general
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oSIST prEN ISO 75-1:2012

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN ISO 75-1

January 2012

ICS 83.080.01

Will supersede EN ISO 75-1:2004

English Version

Plastics - Determination of temperature of deflection under load - Part 1: General test method (ISO/DIS 75-1:2012)

Plastiques - Détermination de la température de fléchissement sous charge - Partie 1: Méthode d'essai générale (ISO/DIS 75-1:2012)

Kunststoffe - Bestimmung der Wärmeformbeständigkeitstemperatur - Teil 1: Allgemeines Prüfverfahren (ISO/DIS 75-1:2012)

This draft European Standard is submitted to CEN members for parallel enquiry. It has been drawn up by the Technical Committee CEN/TC 249.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

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Foreword

This document (prEN ISO 75-1:2012) 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 NBN.

This document is currently submitted to the parallel Enquiry.

This document will supersede EN ISO 75-1:2004.

Endorsement notice

The text of ISO/DIS 75-1:2012 has been approved by CEN as a prEN ISO 75-1:2012 without any modification.

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DRAFT INTERNATIONAL STANDARD ISO/DIS 75-1

ISO/TC 61/SC 2

Secretariat: AENOR

Voting begins on
2012-01-12Voting terminates on
2012-06-12

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Plastics — Determination of temperature of deflection under load —

Part 1: General test method

Plastiques — Détermination de la température de fléchissement sous charge —

Partie 1: Méthode d'essai générale

[Revision of second edition (ISO 75-1:2004)]

ICS 83.080.01

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ISO/CEN PARALLEL PROCESSING

This draft has been developed within the International Organization for Standardization (ISO), and processed under the **ISO-lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five-month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

Pour accélérer la distribution, le présent document est distribué tel qu'il est parvenu du secrétariat du comité. Le travail de rédaction et de composition de texte sera effectué au Secrétariat central de l'ISO au stade de publication.

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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 75-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 2, Mechanical properties.

This second/third/... edition cancels and replaces the first/second/... edition (ISO 75-1:2004), [clause(s) / subclause(s) / table(s) / figure(s) / annex(es)] of which [has / have] been technically revised.

ISO 75 consists of the following parts, under the general title *Plastics — Determination of temperature of deflection under load*:

- *Part 1: General test method*
- *Part 2: Plastics and ebonite*
- *Part 3: High-strength thermosetting laminates and long-fibre-reinforced plastics*

Introduction

ISO 75-1:1993 and ISO 75-2:1993 described three methods (A, B and C) using different test loads and two specimen positions, edgewise and flatwise. For testing in the flatwise position, test specimens with dimensions 80 mm × 10 mm × 4 mm were required. These can be moulded directly or machined from the central section of the multipurpose test specimen (see ISO 20753 or ISO 3167).

ISO 75-1:2004 and ISO 75-2:2004 specified the flatwise test position as preferred, while still allowing testing in the edgewise position with test conditions given in Annex A until the next revision of this document, as agreed in ISO/TC 61/SC2/WG 5. Therefore, with this revision, the edgewise test position will be removed.

Technical development of testing instruments in recent years made instruments based on a fluidized bed or air ovens available. These are especially advantageous for use at temperatures at which the common silicone oil based heat transfer fluids reach their limit of thermal stability. The fluidized bed and air oven methods of heat transfer are introduced in this revision.

An additional precision statement covering the new heating methods is introduced in Part 2.

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