



SLOVENSKI STANDARD SIST EN ISO 75-3:2004

01-oktober-2004

Nadomešča:
SIST EN ISO 75-3:2000

**Polimerni materiali - Določanje temperature upogiba pod obremenitvijo - 3. del:
Duromerni laminati z visoko trdnostjo (ISO 75-3:2004)**

Plastics - Determination of temperature of deflection under load - Part 3: High-strength thermosetting laminates (ISO 75-3:2004)

Kunststoffe - Bestimmung der Wärmeformbeständigkeitstemperatur - Teil 3:
Hochbeständige härtbare Schichtstoffe und langfaserverstärkte Kunststoffe (ISO 75-3:2004)

[SIST EN ISO 75-3:2004](#)

Plastiques - Détermination de la température de fléchissement sous charge - Partie 3:
Stratifiés thermodurcissables a haute résistance (ISO 75-3:2004)

Ta slovenski standard je istoveten z: EN ISO 75-3:2004

ICS:

83.080.10	Duromeri	Thermosetting materials
83.120	Ojačani polimeri	Reinforced plastics

SIST EN ISO 75-3:2004 en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 75-3

May 2004

ICS 83.120; 83.140.20

Supersedes EN ISO 75-3:1996

English version

**Plastics - Determination of temperature of deflection under load
- Part 3: High-strength thermosetting laminates (ISO 75-3:2004)**

Plastiques - Détermination de la température de
fléchissement sous charge - Partie 3: Stratifiés
thermodurcissables à haute résistance (ISO 75-3:2004)

Kunststoffe - Bestimmung der
Wärmeformbeständigkeitstemperatur - Teil 3:
Hochbeständige härtbare Schichtstoffe (ISO 75-3:2004)

This European Standard was approved by CEN on 20 June 2003.

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 75-3:2004 (E)**Foreword**

This document (EN ISO 75-3:2004) 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 November 2004, and conflicting national standards shall be withdrawn at the latest by November 2004.

This document supersedes EN ISO 75-3:1996.

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 75-3:2004 has been approved by CEN as EN ISO 75-3:2004 without any modifications.

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INTERNATIONAL STANDARD

ISO
75-3

Second edition
2004-05-15

Plastics — Determination of temperature of deflection under load —

Part 3:

High-strength thermosetting laminates and long-fibre-reinforced plastics

iTeh STANDARD PREVIEW

Plastiques — Détermination de la température de fléchissement sous charge

Partie 3: Stratifiés thermodurcissables à haute résistance et plastiques renforcés de fibres longues

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ISO 75-3:2004(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.

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 75-3 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 2, *Mechanical properties*.

This second edition cancels and replaces the first edition (ISO 75-3:1993), which has 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*

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Introduction

In this edition of ISO 75-3, the test load is determined as a fraction of the flexural modulus of the material under test. This has the advantage that the test load is a fraction of the flexural strength of the material. The test determines the temperature-dependent decrease in the flexural modulus. Because tensile modulus and tensile strength are not necessarily related, using the flexural modulus to determine the test load leads to more readily comparable descriptions of material behaviour.

The strain increase at which the temperature of deflection under load is read has been increased from 0,1 % to 0,2 % to obtain greater commonality with ISO 75-2.

Unlike ISO 75-2, this part of ISO 75 only allows flatwise loading, as was already the case in the previous edition (ISO 75-3:1993).

In order to maintain consistency with ISO 10350-1:1998, T_f has been used as the symbol for temperature of deflection under load.

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