

---

**Polimerni materiali - Določanje temperature upogiba pod obremenitvijo -  
Duromerni (termoreaktivni) laminati z visoko trdnostjo in polimeri, ojačeni z  
dolgimi vlakni (ISO/DIS 75-3:2024)**

Plastics - Determination of temperature of deflection under load - Part 3: High-strength thermosetting laminates and long-fibre-reinforced plastics (ISO/DIS 75-3:2024)

Kunststoffe- Bestimmung der Wärmeformbeständigkeitstemperatur - Teil 3:  
Hochbeständige härtbare Schichtstoffe und langfaserverstärkte Kunststoffe (ISO/DIS 75-3:2024)

Plastiques - Détermination de la température de fléchissement sous charge - Partie 3:  
Stratifiés thermodurcissables à haute résistance et plastiques renforcés de fibres  
longues (ISO/DIS 75-3:2024)

<https://standards.iteh.ai>

<https://standards.iteh.ai/catalog/standards/sist/e46aaf8e-c8ee-446a-962b-b26c13461f62/osist-pren-iso-75-3-2024>

**Ta slovenski standard je istoveten z: prEN ISO 75-3**

---

**ICS:**

83.080.10	Duromeri	Thermosetting materials
83.120	Ojačani polimeri	Reinforced plastics

**oSIST prEN ISO 75-3:2024**

**en,fr,de**





# DRAFT International Standard

## ISO/DIS 75-3

### Plastics — Determination of temperature of deflection under load —

#### Part 3: High-strength thermosetting laminates and long-fibre-reinforced plastics

*Plastiques — Détermination de la température de fléchissement  
sous charge —*

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

ICS: 83.080.10; 83.120

ISO/TC 61/SC 2

Secretariat: **KATS**

Voting begins on:  
**2024-07-29**

Voting terminates on:  
**2024-10-21**

This document is circulated as received from the committee secretariat.

**ISO/CEN PARALLEL PROCESSING**

Reference number  
ISO/DIS 75-3:2024(en)

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENTS AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

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.

© ISO 2024

## ISO/DIS 75-3:2024(en)

# iTeh Standards (<https://standards.itih.ai>) Document Preview

[oSIST prEN ISO 75-3:2024](https://standards.itih.ai/catalog/standards/sist/e46aaf8e-c8ee-446a-962b-b26c13461f62/osist-pren-iso-75-3-2024)

<https://standards.itih.ai/catalog/standards/sist/e46aaf8e-c8ee-446a-962b-b26c13461f62/osist-pren-iso-75-3-2024>



### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

## ISO/DIS 75-3:2024(en)

## Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Principle</b> .....	<b>2</b>
<b>5 Apparatus</b> .....	<b>2</b>
5.1 Means of producing a flexural stress.....	2
5.2 Heating equipment.....	2
5.3 Weights.....	2
5.4 Temperature-measuring instrument.....	2
5.5 Deflection-measuring instrument.....	2
5.6 Micrometers and gauges.....	2
<b>6 Test specimens</b> .....	<b>3</b>
6.1 General.....	3
6.2 Shape and dimensions.....	3
6.3 Specimen inspection.....	3
6.4 Number of test specimens.....	3
6.5 Test-specimen preparation.....	3
6.6 Annealing.....	4
<b>7 Conditioning</b> .....	<b>4</b>
<b>8 Procedure</b> .....	<b>4</b>
8.1 Calculation of the force to be applied.....	4
8.2 Initial temperature of the heating equipment.....	4
8.3 Measurement.....	4
<b>9 Expression of results</b> .....	<b>5</b>
<b>10 Precision</b> .....	<b>5</b>
<b>11 Test report</b> .....	<b>5</b>
<b>Annex A (informative) Precision data</b> .....	<b>6</b>
<b>Bibliography</b> .....	<b>11</b>

## ISO/DIS 75-3:2024(en)

### 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 2, *Mechanical behavior*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 249, *Plastics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 75-3:2004), which has been technically revised.

The main changes are as follows:

- Update Introduction, Scope and Principle;
- Updated the normative references and the bibliography;
- Changed the span definition by using a formula complying with ISO 178;
- Added preferred specimen thickness dimensions;
- Added examples of initial deflection, error and standard deflection calculations;
- Added a precision statement Annex.

A list of all parts in the ISO 75 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).