

Plastics - Injection moulding of test specimens of thermoplastic materials - Part 2: Small tensile bars (ISO 294-2:2018)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 294-2:2018 sisaldab Euroopa standardi EN ISO 294-2:2018 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 294-2:2018 consists of the English text of the European standard EN ISO 294-2:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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ICS 83.080.20

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English Version

Plastics - Injection moulding of test specimens of
thermoplastic materials - Part 2: Small tensile bars (ISO
294-2:2018)

Plastiques - Moulage par injection des éprouvettes de
matériaux thermoplastiques - Partie 2: Barreaux de
traction de petites dimensions (ISO 294-2:2018)

Kunststoffe - Spritzgießen von Probekörpern aus
Thermoplasten - Teil 2: Kleine Zugstäbe (ISO 294-
2:2018)

This European Standard was approved by CEN on 18 December 2018.

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COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN ISO 294-2:2018) 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 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of an identical text or by endorsement, at the latest by June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.

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

This document supersedes EN ISO 294-2:1998.

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Endorsement notice

The text of ISO 294-2:2018 has been approved by CEN as EN ISO 294-2:2018 without any modification.

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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.

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).

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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.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 9, *Thermoplastic materials*.

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.

This second edition cancels and replaces the first edition (ISO 294-2:1996), of which it constitutes a minor revision to update the references in [Clause 2](#). It also incorporates the Amendment ISO 294-2:1996/Amd 1:2004.

A list of all parts in the ISO 294 series can be found on the ISO website.

Plastics — Injection moulding of test specimens of thermoplastic materials —

Part 2: Small tensile bars

1 Scope

This document specifies a four-cavity mould, the type C ISO mould, for the injection moulding of small tensile bars measuring $\geq 60 \text{ mm} \times 10 \text{ mm} \times 3 \text{ mm}$ (the type CW11 test specimen in ISO 20753).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 294-1:2017, *Plastics — Injection moulding of test specimens of thermoplastic materials — Part 1: General principles, and moulding of multipurpose and bar test specimens*

ISO 20753, *Plastics — Test specimen*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 294-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Apparatus

4.1 Type C ISO mould

The type C ISO mould is a four-cavity mould with a double-T runner (see [Figure 1](#)) intended for the preparation of small tensile bars to be used for the measurement of so-called “indicative” properties when studying the effects of environmental influences, such as liquid chemicals, heat or weathering, on plastics (see ISO 11403-3). The bar mouldings produced using this mould shall have the dimensions of the type CW11 specimen defined in ISO 20753 plus a thickness of $3,0 \text{ mm} \pm 0,2 \text{ mm}$.