

Plastics - Determination of tensile properties - Part 3:
Test conditions for films and sheets (ISO 527-3:2018)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 527-3:2018 sisaldab Euroopa standardi EN ISO 527-3:2018 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 527-3:2018 consists of the English text of the European standard EN ISO 527-3:2018.
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English Version

Plastics - Determination of tensile properties - Part 3: Test
conditions for films and sheets (ISO 527-3:2018)

Plastiques - Détermination des propriétés en traction -
Partie 3: Conditions d'essai pour films et feuilles (ISO
527-3:2018)

Kunststoffe - Bestimmung der Zugeigenschaften - Teil
3: Prüfbedingungen für Folien und Tafeln (ISO 527-
3:2018)

This European Standard was approved by CEN on 12 November 2018.

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COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN ISO 527-3:2018) 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of an identical text or by endorsement, at the latest by June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.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 527-3:1995.

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Endorsement notice

The text of ISO 527-3:2018 has been approved by CEN as EN ISO 527-3:2018 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 11, *Products*.

This second edition cancels and replaces the first edition (ISO 527-3:1995), of which it constitutes a minor revision. It also incorporates the Technical Corrigenda ISO 527-3:1995/Cor.1:1998 and ISO 527-3:1995/Cor.2:2001. The changes compared to the previous edition are as follows:

- references to ISO 527-1 have been updated to the latest edition;
- [Clauses 3](#) and [4](#) have been interchanged;
- the document has been editorially revised.

A list of all parts in the ISO 527 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.

Plastics — Determination of tensile properties —

Part 3:

Test conditions for films and sheets

1 Scope

1.1 This document specifies the conditions for determining the tensile properties of plastic films or sheets less than 1 mm thick, based upon the general principles given in ISO 527-1.

NOTE For sheets greater than 1 mm thick, the user is referred to ISO 527-2.

1.2 See ISO 527-1:2012, 1.2.

1.3 This document is not normally suitable for determining the tensile properties of

- a) cellular materials, and
- b) plastics reinforced by textile fibres.

1.4 See ISO 527-1:2012, 1.3.

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 527-1:2012, *Plastics — Determination of tensile properties — Part 1: General principles*

ISO 4591, *Plastics — Film and sheeting — Determination of average thickness of a sample, and average thickness and yield of a roll, by gravimetric techniques (gravimetric thickness)*

ISO 4593, *Plastics — Film and sheeting — Determination of thickness by mechanical scanning*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 527-1 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 Principle

See ISO 527-1:2012, 4.1.