SLOVENSKI STANDARD
SIST EN ISO 11963:2019

01-november-2019

Nadomešča:
SIST EN ISO 11963:2014

Polimerni materiali - Plošče iz polikarbonata - Vrste, mere in značilnosti (ISO 11963:2019)

Plastics - Polycarbonate sheets - Types, dimensions and characteristics (ISO 11963:2019)

Kunststoffe - Tafeln aus Polycarbonat - Lieferformen, Abmessungen und charakteristische Eigenschaften (ISO 11963:2019)

Plastiques - Plaques en polycarbonate - Types, dimensions et caractéristiques (ISO 11963:2019)

Ta slovenski standard je istoveten z: **EN ISO 11963:2019**

ICS:

83.140.10	Filmi in folije	Films and sheets

SIST EN ISO 11963:2019 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 11963

September 2019

ICS 83.140.10

Supersedes EN ISO 11963:2012

English Version

Plastics - Polycarbonate sheets - Types, dimensions and characteristics (ISO 11963:2019)

Plastiques - Plaques en polycarbonate - Types, dimensions et caractéristiques (ISO 11963:2019)

Kunststoffe - Tafeln aus Polycarbonat - Lieferformen, Abmessungen und charakteristische Eigenschaften (ISO 11963:2019)

This European Standard was approved by CEN on 20 July 2019.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN ISO 11963:2019) 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of an identical text or by endorsement, at the latest by March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

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 11963:2012.

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Endorsement notice

The text of ISO 11963:2019 has been approved by CEN as EN ISO 11963:2019 without any modification.

INTERNATIONAL STANDARD

ISO 11963

Third edition
2019-07

Plastics — Polycarbonate sheets — Types, dimensions and characteristics

Plastiques — Plaques en polycarbonate — Types, dimensions et caractéristiques

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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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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.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 11, *Products*.

This third edition cancels and replaces the second edition (ISO 11963:2012), which has been technically revised. The main changes compared to the previous edition are as follows.

— Relative humidity rule (50 ± 10) % was deleted from 5.4.1. Dimension change by the moisture absorption is very small, and the polycarbonate materials do not need to state adjustment of the relative humidity in the dimensional measurement.

— Relative humidity rule was changed from (65 ± 5) % to (50 ± 10) % in 6.7.2. Polycarbonate materials are not humidity sensitive material in weathering.

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 — Polycarbonate sheets — Types, dimensions and characteristics

1 Scope

This document specifies the requirements for solid, flat extruded sheets of polycarbonate (PC) for general applications. It applies specifically to sheets made of poly(*p,p′*-isopropylidene-diphenyl carbonate). The sheets can be coloured or colourless, and they can be transparent, translucent or opaque. The sheets can also be those that have a special weather-protective layer on one or both surfaces.

This document applies only to thicknesses equal to or greater than 1,5 mm.

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 75-1, *Plastics — Determination of temperature of deflection under load — Part 1: General test method*

ISO 75-2:2013, *Plastics — Determination of temperature of deflection under load — Part 2: Plastics and ebonite*

ISO 179-1:2010, *Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test*

ISO 291, *Plastics — Standard atmospheres for conditioning and testing*

ISO 306:2013, *Plastics — Thermoplastic materials — Determination of Vicat softening temperature (VST)*

ISO 527-2, *Plastics — Determination of tensile properties — Part 2: Test conditions for moulding and extrusion plastics*

ISO 877-1, *Plastics — Methods of exposure to solar radiation — Part 1: General guidance*

ISO 877-2, *Plastics — Methods of exposure to solar radiation — Part 2: Direct weathering and exposure behind window glass*

ISO 877-3, *Plastics — Methods of exposure to solar radiation — Part 3: Intensified weathering using concentrated solar radiation*

ISO 2818, *Plastics — Preparation of test specimens by machining*

ISO 4892-1, *Plastics — Methods of exposure to laboratory light sources — Part 1: General guidance*

ISO 4892-2, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps*

ISO 8256:2004, *Plastics — Determination of tensile-impact strength*

ISO 13468-1, *Plastics — Determination of the total luminous transmittance of transparent materials — Part 1: Single-beam instrument*

3 Terms and definitions

No terms and definitions are listed in this document.