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Extruded sheets of impact-modified polystyrene (PS-I)
- Requirements and test methods (ISO 14631:2021)

EESTI STANDARDI EESSÕNA

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ICS 83.140.10

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EUROPEAN STANDARD

EN ISO 14631

NORME EUROPÉENNE

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English Version

Extruded sheets of impact-modified polystyrene (PS-I) - Requirements and test methods (ISO 14631:2021)

Plaques extrudées en polystyrène modifié résistant au
choc (PS-I) - Exigences et méthodes d'essai (ISO
14631:2021)

Extrudierte Tafeln aus schlagzäh-modifiziertem
Polystyrol (PS-I) - Anforderungen und Prüfverfahren
(ISO 14631:2021)

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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

European foreword

This document (EN ISO 14631:2021) 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of an identical text or by endorsement, at the latest by December 2021, and conflicting national standards shall be withdrawn at the latest by December 2021.

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.

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Endorsement notice

The text of ISO 14631:2021 has been approved by CEN as EN ISO 14631:2021 without any modification.

Contents

	Page
Foreword.....	iv
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Material.....	2
5 Requirements.....	2
5.1 Appearance.....	2
5.2 Dimensional tolerances.....	2
5.2.1 Thickness.....	2
5.2.2 Length and width.....	2
5.2.3 Rectangularity.....	3
5.2.4 Bow of sheets in rolled form.....	3
5.3 Properties.....	3
5.3.1 General.....	3
5.3.2 Mechanical and thermal properties.....	4
5.3.3 Behaviour after heating.....	4
5.3.4 Physiological behaviour.....	5
6 Test methods.....	5
6.1 Test specimens.....	5
6.1.1 Preparation of test specimens.....	5
6.1.2 Conditioning.....	5
6.1.3 Testing.....	5
6.2 Delivery condition.....	5
6.3 Appearance.....	5
6.4 Dimensions.....	6
6.4.1 Thickness (<i>h</i>).....	6
6.4.2 Length (<i>l</i>) and width (<i>b</i>).....	6
6.4.3 Rectangularity.....	6
6.4.4 Bow of sheets in rolled form.....	6
6.5 Density.....	6
6.6 Mechanical properties.....	6
6.6.1 Tensile stress at yield (σ_Y).....	6
6.6.2 Nominal tensile strain at break (ϵ_{TB}).....	6
6.6.3 Modulus of elasticity in tension (E_T).....	6
6.6.4 Charpy impact strength of unnotched specimens (a_{CU}).....	7
6.6.5 Charpy impact strength of notched specimens (a_{CN}).....	7
6.6.6 Multiaxial impact strength.....	7
6.6.7 Ball indentation hardness.....	7
6.7 Thermal properties.....	7
6.7.1 Vicat softening temperature.....	7
6.7.2 Determination of shrinkage after heating.....	7
7 Designation.....	9
7.1 Example for PS-I-sheets.....	9
7.2 Example for PS-I sheets in roll form.....	9
8 Marking.....	9
Annex A (informative) Additional guide values.....	10
Bibliography.....	11

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*, 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 second edition cancels and replaces the first edition (ISO 14631:1999), of which it constitutes a minor revision.

The change compared to the previous edition are as follows:

- references to ISO 2897-1 have been replaced by ISO 19063-1.

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.

Extruded sheets of impact-modified polystyrene (PS-I) — Requirements and test methods

1 Scope

This document specifies the requirements and test methods for solid flat extruded sheets of impact-modified polystyrene (PS-I) without fillers and reinforcing materials.

This document applies only to thickness 0,25 mm to 20,0 . It also applies to PS-I sheet in roll form.

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 179-1, *Plastics — Determination of Charpy impact properties — Part 2: Instrumented impact test*

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

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

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

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

ISO 1043-1, *Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics*

ISO 1183-1, *Plastics — Methods for determining the density of non-cellular plastics — Part 1: Immersion method, liquid pycnometer method and titration method*

ISO 1183-2, *Plastics — Methods for determining the density of non-cellular plastics — Part 2: Density gradient column method*

ISO 2039-1, *Plastics — Determination of hardness — Part 1: Ball indentation method*

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

ISO 6603-1, *Plastics — Determination of multi-axial impact behaviour of rigid plastics — Part 1: Falling dart method*

ISO 11501, *Plastics — Film and sheeting — Determination of dimensional change on heating*

ISO 19063-1, *Plastics — Impact-resistant polystyrene (PS-I) moulding and extrusion materials — Part 1: Designation system and basis for specifications*

3 Terms and definitions

No terms and definitions are listed in this document.

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>