
Penjeni polimerni materiali - Polietilen - Preskusne metode (ISO 7214:1998)

Cellular plastics - Polyethylene - Methods of test (ISO 7214:1998)

Schaumstoffe aus Polyethylen - Prüfverfahren (ISO 7214:1998)

Plastiques alvéolaires - Polyéthylène - Méthodes d'essai (ISO 7214:1998)

Ta slovenski standard je istoveten z: EN ISO 7214:2000[SIST EN ISO 7214:2001](https://standards.iteh.ai/catalog/standards/sist/15338642-3129-4643-bbc6-833135f3c579/sist-en-iso-7214-2001)<https://standards.iteh.ai/catalog/standards/sist/15338642-3129-4643-bbc6-833135f3c579/sist-en-iso-7214-2001>**ICS:**

83.100 Penjeni polimeri Cellular materials

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ICS 83.100

English version

Cellular plastics - Polyethylene - Methods of test (ISO
7214:1998)

Plastiques alvéolaires - Polyéthylène - Méthodes d'essai
(ISO 7214:1998)

Schaumstoffe aus Polyethylen - Prüfverfahren (ISO
7214:1998)

This European Standard was approved by CEN on 8 September 2000.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of the International Standard from Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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of an identical text or by endorsement, at the latest by March 2001, and conflicting national standards shall be withdrawn at the latest by March 2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 7214:1998 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

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Annex ZA (normative)
Normative references to international publications
with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 845	1988	Cellular plastics and rubbers – Determination of apparent (bulk) density	EN ISO 845	1995
ISO 1798	1977	Flexible cellular polymeric materials - Determination of tensile strength and elongation at break	EN ISO 1798	1999
ISO 1856	1980	Polymeric materials, cellular flexible – Determination of compression set	EN ISO 1856	1996
ISO 1872-1	1993	Plastics – Polyethylene (PE) moulding and extrusion materials – Part 1: Designation system and basis for specifications	EN ISO 1872-1	1999
ISO 1923	1981	Cellular plastics and rubbers – Determination of linear dimensions	EN ISO 1923	1995
ISO 3386-1	1986	Polymeric materials, cellular flexible – Determination of stress-strain characteristics – Part 1: Low-density materials	EN ISO 3386-1	1997
ISO 4613-1	1993	Plastics – Ethylene/vinyl acetate (E/VAC) moulding and extrusion materials – Part 1: Designation and specification	EN ISO 4613-1	1999
ISO 4651	1988	Cellular rubbers and plastics – Determination of dynamic cushioning performance	EN ISO 4651	1995
ISO 8497	1994	Thermal insulation – Determination of steady-state thermal transmission properties of thermal insulation for circular pipes	EN ISO 8497	1996

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**Cellular plastics — Polyethylene —
Methods of test**

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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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International Standard ISO 7214 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 10, *Cellular plastics*.

This second edition cancels and replaces the first edition (ISO 7214:1985), which has been technically revised. <https://standards.iteh.ai/catalog/standards/sist/15338642-3129-4643-bbc6-833135f3c579/sist-en-iso-7214-2001>

Annex A forms an integral part of this International Standard.

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Cellular plastics – Polyethylene – Methods of test

1 Scope

1.1 This International Standard specifies methods for testing flexible and semi-rigid cellular plastics made from polyethylene. Cellular plastics containing copolymers of ethylene or blends of polymers with polyethylene may also be tested by the procedures of this International Standard, provided these materials have characteristics similar to polyethylene as described in ISO 1872-1, or copolymers of ethylene as described in ISO 4613-1.

1.2 Basic tests suitable for characterization of cellular polyethylene, regardless of end use, are described in clause 7. Clause 8 describes supplementary tests for the determination of properties that are relevant to certain uses.

1.2.1 Basic tests

	Subclause
Apparent density	7.1
Compressive stress-strain	7.2
Compression set	7.3
Tensile strength and elongation	7.4
Thermal stability	7.5
Water absorption	7.6
Burning characteristics	7.7

1.2.2 Supplementary tests

	Subclause
Dynamic cushioning performance	8.1
Compressive creep	8.2
Thermal conductivity	8.3
Water vapour transmission	8.4
Dynamic stiffness	8.5
Cell count	8.6

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of using the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.