

Irish Standard I.S. EN ISO 7214:2012

Cellular plastics - Polyethylene - Methods of test (ISO 7214:2012)

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EN ISO 7214:2012 (E)

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EN ISO 7214:2012 (E)

Foreword

This document (EN ISO 7214:2012) 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of an identical text or by endorsement, at the latest by October 2012, and conflicting national standards shall be withdrawn at the latest by October 2012.

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I.S. EN ISO 7214:2012 INTERNATIONAL STANDARD

ISO 7214

Fourth edition 2012-04-01

Cellular plastics — Polyethylene — Methods of test

Plastiques alvéolaires — Polyéthylène — Méthodes d'essai



ISO 7214:2012(E)



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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

This fourth edition cancels and replaces the third edition (ISO 7214:2007). Figure 1, which was dimensionally incorrect in the previous edition, has been replaced by Figure 2 from ISO 34-1:2010.

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** Mandatory tests suitable for characterization of cellular polyethylene, regardless of end use, are described in Clause 7. Optional tests for the determination of properties that are relevant to certain uses are described in Clause 8.

2 Normative references

The following referenced documents are indispensable for the application 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 845:2006, Cellular plastics and rubbers Determination of apparent density
- ISO 1663, Rigid cellular plastics Determination of water vapour transmission properties
- ISO 1798, Flexible cellular polymeric materials Determination of tensile strength and elongation at break
- ISO 1856, Flexible cellular polymeric materials Determination of compression set
- ISO 1872-1, Plastics Polyethylene (PE) moulding and extrusion materials Part 1: Designation system and basis for specifications
- ISO 1923, Cellular plastics and rubbers Determination of linear dimensions
- ISO 2796, Cellular plastics, rigid Test for dimensional stability
- ISO 2896, Rigid cellular plastics Determination of water absorption
- ISO 3386-1, Polymeric materials, cellular flexible Determination of stress-strain characteristics in compression Part 1: Low-density materials
- ISO 3582, Flexible cellular polymeric materials Laboratory assessment of horizontal burning characteristics of small specimens subjected to a small flame
- ISO 4613-1, Plastics Ethylene/vinyl acetate (E/VAC) moulding and extrusion materials Part 1: Designation and specification
- ISO 4651, Cellular rubbers and plastics Determination of dynamic cushioning performance
- ISO 7850:1986, Cellular plastics, rigid Determination of compressive creep
- ISO 8301, Thermal insulation Determination of steady-state thermal resistance and related properties Heat flow meter apparatus
- ISO 8302, Thermal insulation Determination of steady-state thermal resistance and related properties Guarded hot plate apparatus
- ISO 8497, Thermal insulation Determination of steady-state thermal transmission properties of thermal insulation for circular pipes



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