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NSAI Standards

Irish Standard
I.S. EN ISO 845:2009

Cellular plastics and rubbers - Determination of apparent density (ISO 845:2006)

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EUROPEAN STANDARD

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EUROPÄISCHE NORM

EN ISO 845

June 2009

ICS 83.100

Supersedes EN ISO 845:1995

English Version

Cellular plastics and rubbers - Determination of apparent density (ISO 845:2006)

Caoutchoucs et plastiques alvéolaires - Détermination de la masse volumique apparente (ISO 845:2006)

Schaumstoffe aus Kautschuk und Kunststoffen - Bestimmung der Rohdichte (ISO 845:2006)

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Foreword

The text of ISO 845:2006 has been prepared by Technical Committee ISO/TC 61 “Plastics” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 845:2009 by 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of an identical text or by endorsement, at the latest by December 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

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INTERNATIONAL STANDARD

ISO 845

Third edition
2006-12-01

Cellular plastics and rubbers — Determination of apparent density

Caoutchoucs et plastiques alvéolaires — Détermination de la masse volumique apparente

Reference number
ISO 845:2006(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.

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ISO 845 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 10, *Cellular plastics*.

This third edition cancels and replaces the second edition (ISO 845:1988), which has been technically revised.

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Cellular plastics and rubbers — Determination of apparent density

1 Scope

This International Standard specifies a method for determining the apparent overall density and the apparent core density of cellular plastics and rubbers.

If the material to be tested includes skins formed during a moulding/extrusion, the apparent overall density or the apparent core density, or both, can be determined. If the material does not have skins formed during moulding, the term "overall density" is not applicable.

For shaped materials, a different method such as buoyancy method may be used.

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

ISO 1923, *Cellular plastics and rubbers — Determination of linear dimensions*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
apparent overall density
⟨cellular material⟩ mass per unit volume of a sample, including all skins formed during moulding

3.2
apparent core density
⟨cellular material⟩ mass per unit sample after all skins formed during moulding have been removed

4 Apparatus

Ordinary laboratory apparatus and the following.

4.1 **Balance**, capable of determining the mass of a test specimen to an accuracy of 0,1 %.

4.2 **Measuring instruments**, in accordance with ISO 1923.

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