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I.S. EN ISO 845:2009

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

## I.S. EN ISO 845:2009

*Incorporating amendments/corrigenda issued since publication:*

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EUROPEAN STANDARD

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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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## **Contents**

Page

<b>Foreword.....</b>	<b>3</b>
----------------------	----------

## **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of an identical text or by endorsement, at the latest by December 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

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### **Endorsement notice**

The text of ISO 845:2006 has been approved by CEN as a EN ISO 845:2009 without any modification.

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I.S. EN ISO 845:2009  
**INTERNATIONAL  
STANDARD**

**ISO  
845**

Third edition  
2006-12-01

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**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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# Contents

Page

<b>Foreword</b>	<b>iv</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Normative references</b>	<b>1</b>
<b>3 Terms and definitions</b>	<b>1</b>
<b>4 Apparatus</b>	<b>1</b>
<b>5 Test specimens</b>	<b>2</b>
5.1 Dimensions	2
5.2 Number of test specimens	2
5.3 Conditioning	2
<b>6 Procedure</b>	<b>2</b>
<b>7 Expression of results</b>	<b>3</b>
<b>8 Accuracy</b>	<b>3</b>
<b>9 Test report</b>	<b>4</b>

## **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.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

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.

# 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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