
**Cellular plastics and rubbers —
Determination of apparent density**

Caoutchoucs et plastiques alvéolaires — Détermination de la masse volumique apparente



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Foreword

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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.