
**Flexible cellular polymeric materials —
Moulded and extruded sponge or expanded
cellular rubber products — Compressibility
test on finished parts**

*Matériaux polymères alvéolaires souples — Produits en caoutchouc
alvéolaire expansé ou spongieux, moulés et extrudés — Essai de
compressibilité sur des produits finis*



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

International Standard ISO 11752 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*, Subcommittee SC 4, *Products (other than hoses)*.

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WARNING — Persons using this International Standard should be familiar with normal laboratory practice. This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

1 Scope

This International Standard specifies a method of determining the hardness or compressibility of a material by measuring the compression and/or deformation force on flexible cellular polymeric profiles not less than 3 mm thick.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 471:1995, *Rubber — Temperatures, humidities and times for conditioning and testing*.

ISO 1923 :1981, *Cellular plastics and rubbers — Determination of linear dimensions*.

ISO 5893:1993, *Rubber and plastics test equipment — Tensile, flexural and compression types (constant rate of traverse) — Description*.

3 Principle

The compression produced by a defined test force acting perpendicular to the test piece axis and/or the test force (deformation force) required to deform the test piece to a defined size is measured.

4 Apparatus

4.1 Compression-testing equipment, conforming to grade A and grade A¹ of ISO 5893:1993, capable of compressing a test piece over its entire length between a level surface and an indenter situated parallel to it, moving at a uniform rate of between 0,2 mm/s and 0,8 mm/s. The limits of error shall be 0,1 mm for the compression and 2 % for the test force. The indenter size shall be sufficient to cover the entire area of the test specimen.