SLOVENSKI STANDARD
SIST EN ISO 3386-2:2000

01-maj-2000

Penjeni polimerni materiali - Mehke pene - Določanje diagrama napetost/raztezek - 2. del: Materiali z visoko gostoto (ISO 3386-2:1997)

Flexible cellular polymeric materials - Determination of stress-strain characteristics in compression - Part 2: High-density materials (ISO 3386-2:1997)

Polymere Materialien - Bestimmung der Druckspannungs-Verformungseigenschaften - Teil 2: Materialien mit hoher Dichte (ISO 3386-2:1997)

Matériaux polymeres alvéolaires souples - Détermination de la caractéristique de contrainte-déformation relative en compression - Partie 2: Matériaux a masse volumique élevée (ISO 3386-2:1997)

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83.100	Penjeni polimeri	Cellular materials

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Flexible cellular polymeric materials - Determination of stress-strain characteristics in compression - Part 2: High-density materials (ISO 3386-2:1997)

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This European Standard was approved by CEN on 9 March 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

The text of the International Standard from Technical Committee ISO/TC 45 "Rubber and rubber products" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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 1998, and conflicting national standards shall be withdrawn at the latest by October 1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 3386-2:1997 has been approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

Annex ZA (normative)
Normative references to international publications with their relevant European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

Publication	Year	Title	EN	Year
ISO 1923	1981	Cellular plastics and rubbers - Determination of linear dimensions	EN ISO 1923	1995

INTERNATIONAL STANDARD

ISO 3386-2

Second edition
1997-06-15

Flexible cellular polymeric materials — Determination of stress-strain characteristics in compression —

Part 2: High-density materials

Matériaux polymères alvéolaires souples — Détermination de la caractéristique de contrainte-déformation relative en compression — Partie 2: Matériaux à masse volumique élevée

Reference number
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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.

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.

International Standard ISO 3386-2 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

This second edition cancels and replaces the first edition (ISO 3386-2:1984), of which it constitutes a minor revision (in clause 4, second paragraph, the accuracy required for measurement of the test piece thickness has been changed from 0,02 mm to 0,1 mm).

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Flexible cellular polymeric materials — Determination of stress-strain characteristics in compression —

Part 2:
High-density materials

1 Scope

This part of ISO 3386 specifies a method for the determination of the compression stress-strain characteristics of flexible cellular polymeric materials of density greater than 250 kg/m^3.

The compression stress-strain characteristic is a measure of the load-bearing properties of the material, though not necessarily of its capacity to sustain a long-term load.

The compression stress-strain characteristic differs from the indentation hardness characteristics (as determined in accordance with ISO 2439) which are known to be influenced by the thickness and the tensile properties of the flexible cellular material under test, the shape of the compression plate, and the shape and size of the test piece.

ISO 3386-1 specifies a method for low-density flexible materials, and differs from Part 2 in the following ways:

- Part 1 is concerned with materials of density up to 250 kg/m^3, whilst Part 2 is mainly concerned with materials of density above 250 kg/m^3;
- compression stress values have been deleted from Part 2;
- Part 2 does not allow the use of a cylindrical test piece.

This part of ISO 3386 is a general method for testing denser flexible cellular materials (i.e. expanded cellular rubbers), measurements being made on one of more points on the steeply rising part of the stress-strain curve. The shape factor of the test piece is important and comparative test results can only be obtained on test pieces having the same shape factor.

NOTE 1 For comparison purposes, the method may be used for material of 150 kg/m^3 density or greater.