

ICS 83.100

Supersedes
DIN EN ISO 3386-1:2010-09

**Polymeric materials, cellular flexible –
Determination of stress-strain characteristics in compression –
Part 1: Low-density materials (ISO 3386-1:1986 + Amd 1:2010);
English version EN ISO 3386-1:1997 + A1:2010,
English translation of DIN EN ISO 3386-1:2015-10**

Polymere Materialien, weich-elastische Schaumstoffe –
Bestimmung der Druckspannungs-Verformungseigenschaften –
Teil 1: Materialien mit niedriger Dichte (ISO 3386-1:1986 + Amd 1:2010);
Englische Fassung EN ISO 3386-1:1997 + A1:2010,
Englische Übersetzung von DIN EN ISO 3386-1:2015-10

Matériaux polymères alvéolaires souples –
Détermination de la caractéristique de contrainte-déformation relative en compression –
Partie 1: Matériaux à basse masse volumique (ISO 3386-1:1986 + Amd 1:2010);
Version anglaise EN ISO 3386-1:1997 + A1:2010,
Traduction anglaise de DIN EN ISO 3386-1:2015-10

Document comprises 12 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

A comma is used as the decimal marker.

National foreword

This document (EN ISO 3386-1:1997+A1:2010) has been prepared by Technical Committee ISO/TC 45 “Rubber and rubber products” in collaboration with Technical Committee CEN/TC 249 “Plastics” (Secretariat: NBN, Belgium).

The responsible German body involved in its preparation was the *DIN-Normenausschuss Materialprüfung* (DIN Standards Committee Materials Testing), Working Committee NA 062-04-37 AA *Prüfung weich-elastischer Schaumstoffe*.

DIN EN ISO 3386 consists of the following parts, under the general title *Polymeric materials, cellular flexible* — *Determination of stress-strain characteristics in compression*:

— *Part 1: Low-density materials*

— *Part 2: High-density materials*

This standard includes Amendment A1 approved by CEN on 14 April 2010. The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**.

The DIN Standards corresponding to the International Standards referred to in Clause 2 of this standard are as follows:

ISO 1923	DIN EN ISO 1923
ISO 2439	DIN EN ISO 2439
ISO 7500-1	DIN EN ISO 7500-1
ISO 23529	DIN ISO 23529

Amendments

This standard differs from DIN EN ISO 3386-1:1998-06 as follows:

- a) normative references have been updated (ISO 7500-1 has been added);
- b) requirements regarding the measurement accuracy have been modified (Subclause 4.1);
- c) Subclause 5.4 “Conditioning” has been revised.

Compared with DIN EN ISO 3386-1:2010-09, the following correction has been made to the German version only and therefore does not affect the English text:

- a) the NOTE to 3.1 has been corrected and changed to a footnote to read “kPa = 10³ N/m²” (instead of “kPa = 103 N/m²”).

Previous editions

DIN 53577: 1963-03, 1976-01, 1988-12
DIN EN ISO 3386-1: 1998-06, 2010-09

National Annex NA
(informative)

Bibliography

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

DIN EN ISO 2439, *Flexible cellular polymeric materials — Determination of hardness (indentation technique)*

DIN EN ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force-measuring system*

DIN ISO 23529, *Rubber — General procedures for preparing and conditioning test pieces for physical test methods*