

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 1798:2000

<https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 1798

November 1999

ICS 83.100

English version

Flexible cellular polymeric materials - Determination of tensile strength and elongation at break (ISO 1798:1997)

Matériaux polymères alvéolaires souples - Détermination de la résistance à la traction et de l'allongement à la rupture (ISO 1798:1997)

Weich-elastische polymere Schaumstoffe - Bestimmung der Zugfestigkeit und der Bruchdehnung (ISO 1798:1997)

This European Standard was approved by CEN on 21 June 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.

[SIST EN ISO 1798:2000](https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000)

<https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000>



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

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

Page 2
EN ISO 1798:1999

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 May 2000, and conflicting national standards shall be withdrawn at the latest by May 2000.

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 1798:1997 has been approved by CEN as a European Standard without any modification.

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

[SIST EN ISO 1798:2000](https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000)

<https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000>

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.

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

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 1798:2000](https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000)

<https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN ISO 1798:2000

<https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000>

INTERNATIONAL STANDARD

ISO 1798

Third edition
1997-09-15

Flexible cellular polymeric materials — Determination of tensile strength and elongation at break

*Matériaux polymères alvéolaires souples — Détermination de la résistance
à la traction et de l'allongement à la rupture*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 1798:2000](https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000)

<https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000>



Reference number
ISO 1798:1997(E)

ISO 1798:1997(E)

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 1798 was prepared by Technical Committee ISO/TC 45, *Rubber and rubber products*.

This third edition cancels and replaces the second edition (ISO 1798:1983), which has been technically revised.

<https://standards.iteh.ai/catalog/standards/sist/a0a28045-5548-4ad7-a2e0-591402320833/sist-en-iso-1798-2000>

© ISO 1997

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet: central@iso.ch
X.400: c=ch; a=400net; p=iso; o=isocs; s=central

Printed in Switzerland

Flexible cellular polymeric materials — Determination of tensile strength and elongation at break

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 for determining the strength and deformation properties of flexible cellular materials when a test piece is extended at a constant rate until it breaks.

STANDARD PREVIEW
(standards.iteh.ai)

2 Normative references

SIST EN ISO 1798:2000

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

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 Definitions

For the purpose of this International Standard, the following definitions apply:

3.1 tensile strength: The maximum tensile stress applied during stretching a test piece to rupture.

3.2 elongation at break: The percentage elongation of a test piece at rupture.