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Ophthalmic optics - Contact lenses - Determination of rigid lens flexure and breakage
(ISO 11984:1999)

Augenoptik - Kontaktlinsen - Bestimmung des Verhaltens formstabiler Kontaktlinsen bei
Biegung bis hin zum Bruch (ISO 11984:1999)

Optique ophtalmique - Lentilles de contact - Détermination de la flexion et de la rupture
des lentilles de contact rigides (ISO 11984:1999)

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11.040.70 Oftalmološka oprema Ophthalmic equipment

SIST EN ISO 11984:2000

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EUROPEAN STANDARD

EN ISO 11984

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1999

ICS 11.040.70

English version

Ophthalmic optics - Contact lenses - Determination of rigid lens flexure and breakage (ISO 11984:1999)

Optique ophtalmique - Lentilles de contact - Détermination de la flexion et de la rupture des lentilles de contact rigides (ISO 11984:1999)

Augenoptik - Kontaktlinsen - Bestimmung des Verhaltens formstabiler Kontaktlinsen bei Biegung bis hin zum Bruch (ISO 11984:1999)

This European Standard was approved by CEN on 27 November 1999.

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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.

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

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

Foreword

The text of the International Standard ISO 11984:1999 has been prepared by Technical Committee ISO/TC 172 "Optics and optical instruments" in collaboration with Technical Committee CEN/TC 170 "Ophthalmic optics", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by June 2000, and conflicting national standards shall be withdrawn at the latest by June 2000.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.

NOTE FROM CEN/CS: The foreword is susceptible to be amended on reception of the German language version. The confirmed or amended foreword, and when appropriate, the normative annex ZA for the references to international publications with their relevant European publications will be circulated with the German version.

Endorsement notice

The text of the International Standard ISO 11984:1999 was approved by CEN as a European Standard without any modification.

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INTERNATIONAL
STANDARD

ISO
11984

First edition
1999-12-01

**Ophthalmic optics — Contact lenses —
Determination of rigid lens flexure and
breakage**

*Optique ophtalmique — Lentilles de contact — Détermination de la flexion
et de la rupture des lentilles de contact rigides*

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ISO 11984:1999(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 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 11984 was prepared by Technical Committee ISO/TC 172, *Optics and optical instruments*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

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Ophthalmic optics — Contact lenses — Determination of rigid lens flexure and breakage

1 Scope

This International Standard describes a method for determining the flexural properties of finished rigid contact lenses when tested under specified conditions.

The existence of this International Standard does not imply in any way that the testing of contact lenses for flexure and breakage is a requirement.

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 8320:1986, *Optics and optical instruments — Contact lenses — Vocabulary and symbols*.

ISO 9337-1, *Contact lenses — Determination of back vertex power — Part 1: Method using focimeter with manual focusing*.

ISO 9337-2, *Contact lenses — Determination of back vertex power — Part 2: Measurement on contact lenses immersed in saline*.

ISO 9338:1996, *Optics and optical instruments — Contact lenses — Determination of diameters*.

ISO 9339-1, *Optics and optical instruments — Contact lenses — Determination of thickness — Part 1: Rigid contact lenses*.

ISO 10338:1996, *Optics and optical instruments — Contact lenses — Determination of curvature*.

ISO 10344:1996, *Optics and optical instruments — Contact lenses — Saline solution for contact lens testing*.

3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO 8320 apply, together with the following.

3.1

flexural deformation

reduction of the diameter of the contact lens due to a load applied to the edge of the contact lens, perpendicular to the lens axis, to induce flexure

NOTE It is expressed as a percentage of the original lens diameter.