

SLOVENSKI STANDARD

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Očesna optika - Nebrušena zglajena stekla očal - 3. del: Specifikacije za prepustnost in preskusne metode (ISO 8980-3:2022)

Ophthalmic optics - Uncut finished spectacle lenses - Part 3: Transmittance specifications and test methods (ISO 8980-3:2022)

Augenoptik - Rohkantige fertige Brillengläser - Teil 3: Transmissionsanforderungen und Prüfverfahren (ISO 8980-3:2022)

Optique ophtalmique - Verres de lunettes finis non détourés - Partie 3: Spécifications relatives au facteur de transmission et méthodes d'essai (ISO 8980-3:2022)

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NORME EUROPÉENNE
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English Version

**Ophthalmic optics - Uncut finished spectacle lenses - Part
3: Transmittance specifications and test methods (ISO
8980-3:2022)**

Optique ophtalmique - Verres de lunettes finis non
détourés - Partie 3: Spécifications relatives au facteur
de transmission et méthodes d'essai (ISO 8980-
3:2022)

Augenoptik - Rohkantige fertige Brillengläser - Teil 3:
Transmissionsanforderungen und Prüfverfahren (ISO
8980-3:2022)

This European Standard was approved by CEN on 1 July 2022.

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COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3

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European foreword

This document (EN ISO 8980-3:2022) has been prepared by Technical Committee ISO/TC 172 "Optics and photonics" 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of an identical text or by endorsement, at the latest by January 2023, and conflicting national standards shall be withdrawn at the latest by January 2023.

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

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Endorsement notice

The text of ISO 8980-3:2022 has been approved by CEN as EN ISO 8980-3:2022 without any modification.

INTERNATIONAL STANDARD

**ISO
8980-3**

Fourth edition
2022-06

Ophthalmic optics — Uncut finished spectacle lenses —

Part 3: Transmittance specifications and test methods

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Optique ophtalmique — Verres de lunettes finis non détournés —

*Partie 3: Spécifications relatives au facteur de transmission et
méthodes d'essai*

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Contents

Page

Foreword	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	1
5 Classification	2
6 Requirements	2
6.1 General	2
6.2 General transmittance requirements	2
6.2.1 Tint descriptions, categories, and UV transmittance requirements	2
6.2.2 Tolerances on luminous transmittance of tinted lenses	3
6.3 Spectral transmittance requirements of spectacle lenses intended for driving and road use	4
6.3.1 General	4
6.3.2 Spectral transmittance	4
6.3.3 Daylight use	4
6.3.4 Driving in twilight or at night	4
6.3.5 Relative visual attenuation coefficient (quotient) for incandescent traffic signal light detection	4
6.4 Additional transmittance requirements for special types of spectacle lenses	4
6.4.1 Photochromic spectacle lenses	4
6.4.2 Polarizing spectacle lenses	5
6.4.3 Gradient-tinted spectacle lenses	6
6.5 Resistance to ultraviolet radiation	6
6.6 Claimed UV absorption/transmittance properties	6
6.6.1 General	6
6.6.2 Solar UV absorption	6
6.6.3 Solar UV transmittance	6
7 Test methods	7
7.1 General	7
7.2 Spectral transmittance	7
7.3 Luminous transmittance and relative visual attenuation coefficient (quotient)	7
7.4 Ultraviolet transmittance	8
7.4.1 Principle	8
7.4.2 Apparatus	8
7.4.3 Calculation	8
7.5 Transmittance properties of photochromic spectacle lenses and photochromic specimens	8
7.5.1 Test lenses	8
7.5.2 Apparatus	8
7.5.3 Determination of transmittance	11
7.6 Test methods for polarizing spectacle lenses	12
7.6.1 Mean luminous transmittance	12
7.6.2 Polarizing efficiency	12
7.6.3 Plane of transmission	12
7.7 Determination of resistance to ultraviolet radiation	13
7.7.1 Principle	13
7.7.2 Reference apparatus	13
7.7.3 Procedure using reference apparatus	14
8 Identification	14

ISO 8980-3:2022(E)

Annex A (normative) Spectral data for calculating relative visual attenuation quotients for incandescent signal lights	16
Annex B (normative) Calculation of solar UV and blue-light transmittance values	21
Annex C (normative) Cut-on filter for UV filtering	23
Annex D (informative) Spectral radiation risks	27
Annex E (informative) Transmittance equations in summation form	28
Annex F (informative) Example of the calculation of luminous transmittance, τ_v	32
Bibliography	34

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SIST EN ISO 8980-3:2022

<https://standards.iteh.ai/catalog/standards/sist/af359e3d-a43e-4d5e-9588-b5b850145091/sist-en-iso-8980-3-2022>

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 170, *Ophthalmic optics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fourth edition cancels and replaces the third edition (ISO 8980-3:2013), which has been technically revised.

The main changes are as follows:

- terms and definitions, previously in [Clause 3](#), have been referenced to ISO 13666;
- requirements regarding claimed transmittance properties have been added in [6.6](#);
- references have been updated as appropriate and needed;
- descriptions of requirements throughout the document have been updated and amended for clarification.

A list of all parts in the ISO 8980 series can be found on the ISO website.

Ophthalmic optics — Uncut finished spectacle lenses —

Part 3: Transmittance specifications and test methods

1 Scope

This document specifies requirements for the transmittance properties of uncut and unmounted finished spectacle lenses, including attenuation of solar radiation.

This document is not applicable to

- spectacle lenses having specific transmittance or absorption characteristics prescribed for medical reasons,
- products to which specific personal protective equipment transmittance standards apply, and
- products intended for direct observation of the sun, such as for solar-eclipse viewing.

NOTE 1 By reference to ISO 21987 and ISO 14889, this document also applies to lenses mounted in spectacles.

NOTE 2 Optical and geometric requirements are given for uncut finished spectacle lenses in ISO 8980-1 and ISO 8980-2, and for mounted lenses, in ISO 21987.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 11664-1, *Colorimetry — Part 1: CIE standard colorimetric observers*

ISO 11664-2, *Colorimetry — Part 2: CIE standard illuminants*

ISO 13666:2019, *Ophthalmic optics — Spectacle lenses — Vocabulary*

ISO 14889, *Ophthalmic optics — Spectacle lenses — Fundamental requirements for uncut finished lenses*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13666 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Symbols

The symbols for the characteristic luminous transmittances of photochromic lenses are given in [Table 1](#).