

**Oftalmiline optika. Mõõtulõikamata
viimistletud prilliläätsed. Osa 3:
Läbipaistvust puudutavad tehnilised
nõuded ja katsemeetodid**

Ophthalmic optics - Uncut finished spectacle lenses
- Part 3: Transmittance specifications and test
methods

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 8980-3:2005 sisaldab Euroopa standardi EN ISO 8980-3:2004 ingliskeelset teksti. Käesolev dokument on jõustatud 25.01.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN ISO 8980-3:2005 consists of the English text of the European standard EN ISO 8980-3:2004. This document is endorsed on 25.01.2005 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
--	---

Käsitlusala: This part of ISO 8980 specifies requirements for the transmittance properties of uncut finished spectacle lenses. This part of ISO 8980 is not applicable to - spectacle lenses having particular transmittance or absorption characteristics prescribed for medical reasons; - products where specific personal protective equipment transmittance standards apply.	Scope: This part of ISO 8980 specifies requirements for the transmittance properties of uncut finished spectacle lenses. This part of ISO 8980 is not applicable to - spectacle lenses having particular transmittance or absorption characteristics prescribed for medical reasons; - products where specific personal protective equipment transmittance standards apply.
--	--

ICS 11.040.70

Võtmesõnad: classification, eyeglasses, labelling, ophthalmic equipment, ophthalmic optics, optical properties, optical tests, optics, specifications, spectacle lenses, tests, transmittance

English version

Ophthalmic optics

Uncut finished spectacle lenses

Part 3: Transmittance specifications and test methods
(ISO 8980-3 : 2003)

Optique ophtalmique – Verres de lunettes finis non détournés – Partie 3: Spécifications relatives au facteur de transmission et méthodes d'essai (ISO 8980-3 : 2003)

Augenoptik – Rohkantige fertige Brillengläser – Teil 3: Transmissionsanforderungen und Prüfverfahren (ISO 8980-3 : 2003)

This European Standard was approved by CEN on 2003-09-08.

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 Management Centre or to any CEN member.

The European Standards exist 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Management Centre: rue de Stassart 36, B-1050 Brussels

Foreword

International Standard

ISO 8980-3 : 2003 Ophthalmic optics – Uncut finished spectacle lenses – Part 3: Transmittance specifications and test methods,

which was prepared by ISO/TC 172 'Optics and optical instruments' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 170 'Ophthalmic optics', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by June 2005 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 8980-3 : 2003 was approved by CEN as a European Standard without any modification.

Contents

Page

Foreword	2
1 Scope	3
2 Normative references	3
3 Terms and definitions	3
4 Classification	4
5 Requirements	4
5.1 General	4
5.2 General transmittance requirements	4
5.3 Requirements for driving	4
5.4 Transmittance requirements for special types of spectacle lenses	4
5.5 Resistance to radiation.....	6
6 Testing	6
6.1 General	6
6.2 Spectral transmittance	6
6.3 Luminous transmittance and relative visual attenuation coefficient (quotient).....	6
6.4 Ultraviolet transmittance	7
6.5 Transmittance properties of photochromic spectacle lenses and photochromic specimens.....	7
6.6 Test methods for polarizing spectacle lenses	9
6.7 Determination of resistance to radiation	11
7 Information	11
Annex A (normative) Spectral weighting functions for calculating relative visual attenuation quotients	12
Annex B (normative) Calculation of solar UV transmittance values	14
Annex C (informative) Spectral radiation risks	16
Bibliography	17

1 Scope

This part of ISO 8980 specifies requirements for the transmittance properties of uncut finished spectacle lenses.

This part of ISO 8980 is not applicable to

- spectacle lenses having particular transmittance or absorption characteristics prescribed for medical reasons;
- products where specific personal protective equipment transmittance standards apply.

NOTE Optical and geometric requirements for uncut finished spectacle lenses are specified in ISO 8980-1 and ISO 8980-2.

2 Normative references

The following referenced documents are indispensable for the application 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 13666, *Ophthalmic optics — Spectacle lenses — Vocabulary*

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

ISO/CIE¹⁾ 10526, *CIE standard illuminants for colorimetry*

ISO/CIE 10527, *CIE standard colorimetric observers*

3 Terms and definitions

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

1) International Commission on Illumination, Kegelgasse 27, A-1030 Vienna.