



**SLOVENSKI STANDARD
SIST EN ISO 4892-3:2024**

01-december-2024

**Polimerni materiali - Metode izpostavljanja laboratorijskim virom svetlobe - 3. del:
Fluorescentne UV-svetilke (ISO 4892-3:2024)**

Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps
(ISO 4892-3:2024)

Kunststoffe - Künstliches Bestrahlen oder Bewittern in Geräten - Teil 3: UV-
Leuchtstofflampen (ISO 4892-3:2024)

Plastiques - Méthodes d'exposition à des sources lumineuses de laboratoire - Partie 3:
Lampes fluorescentes UV (ISO 4892-3:2024)

Ta slovenski standard je istoveten z: EN ISO 4892-3:2024

[SIST EN ISO 4892-3:2024](https://standards.sist.net/sist-standards/sist-66473/ta-2024-11-01-4892-3-2024)

ICS:

83.080.01	Polimerni materiali na splošno	Plastics in general
-----------	-----------------------------------	---------------------

SIST EN ISO 4892-3:2024

en,fr,de

EUROPEAN STANDARD

EN ISO 4892-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2024

ICS 83.080.01

Supersedes EN ISO 4892-3:2016

English Version

Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps (ISO 4892-3:2024)

Plastiques - Méthodes d'exposition à des sources
lumineuses de laboratoire - Partie 3: Lampes
fluorescentes UV (ISO 4892-3:2024)

Kunststoffe - Künstliches Bestrahlen oder Bewittern in
Geräten - Teil 3: UV-Leuchtstofflampen (ISO 4892-
3:2024)

This European Standard was approved by CEN on 17 October 2024.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

<https://standards.iteh.ai>
SIST EN ISO 4892-3:2024

<https://standards.iteh.ai/catalog/standards/sist/b8d43ffa-2843-4fa8-89c8-4b8d0ac2530e/sist-en-iso-4892-3-2024>



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[SIST EN ISO 4892-3:2024](https://standards.itih.ai/catalog/standards/sist/b8d43ffa-2843-4fa8-89c8-4b8d0ac2530e/sist-en-iso-4892-3-2024)

<https://standards.itih.ai/catalog/standards/sist/b8d43ffa-2843-4fa8-89c8-4b8d0ac2530e/sist-en-iso-4892-3-2024>

European foreword

This document (EN ISO 4892-3:2024) has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with Technical Committee CEN/TC 249 "Plastics" the secretariat of which is held by SIS.

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 April 2025, and conflicting national standards shall be withdrawn at the latest by April 2025.

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.

This document supersedes EN ISO 4892-3:2016.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 4892-3:2024 has been approved by CEN as EN ISO 4892-3:2024 without any modification.

[SIST EN ISO 4892-3:2024](https://standards.iteh.ai/catalog/standards/sist/b8d43ffa-2843-4fa8-89c8-4b8d0ac2530e/sist-en-iso-4892-3-2024)

<https://standards.iteh.ai/catalog/standards/sist/b8d43ffa-2843-4fa8-89c8-4b8d0ac2530e/sist-en-iso-4892-3-2024>



International Standard

ISO 4892-3

Plastics — Methods of exposure to laboratory light sources —

Part 3:

Fluorescent UV lamps

*Plastiques — Méthodes d'exposition à des sources lumineuses de
laboratoire —*

Partie 3: Lampes fluorescentes UV

**Fifth edition
2024-10**

[SIST EN ISO 4892-3:2024](https://standards.iteh.ai/catalog/standards/sist/b8d43ffa-2843-4fa8-89c8-4b8d0ac2530e/sist-en-iso-4892-3-2024)

<https://standards.iteh.ai/catalog/standards/sist/b8d43ffa-2843-4fa8-89c8-4b8d0ac2530e/sist-en-iso-4892-3-2024>

ISO 4892-3:2024(en)

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN ISO 4892-3:2024](https://standards.iteh.ai/catalog/standards/sist/b8d43ffa-2843-4fa8-89c8-4b8d0ac2530e/sist-en-iso-4892-3-2024)

<https://standards.iteh.ai/catalog/standards/sist/b8d43ffa-2843-4fa8-89c8-4b8d0ac2530e/sist-en-iso-4892-3-2024>

**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

ISO 4892-3:2024(en)

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Apparatus	2
5.1 Laboratory light source.....	2
5.2 Test chamber.....	5
5.3 Radiometer.....	6
5.4 Control of temperature.....	6
5.5 Wetting.....	6
5.5.1 General.....	6
5.5.2 Condensation and water spray system.....	7
5.6 Control of humidity.....	7
5.7 Specimen holders.....	7
5.8 Apparatus to assess changes in properties.....	7
6 Test specimens	8
7 Test conditions	8
7.1 Radiation.....	8
7.2 Temperature.....	8
7.3 Condensation and spray cycles.....	8
7.4 Cycles with dark periods.....	8
7.5 Sets of exposure conditions.....	8
8 Procedure	10
8.1 General.....	10
8.2 Mounting the test specimens.....	10
8.3 Exposure.....	10
8.4 Measurement of radiant exposure.....	11
8.5 Determination of changes in properties after exposure.....	11
9 Test report	11
Annex A (normative) Relative irradiance of typical fluorescent UV lamps	12
Annex B (informative) Condensation type device	16
Annex C (informative) Climatic chamber type device	17
Annex D (informative) Alternative test cycles	18
Bibliography	19

ISO 4892-3:2024(en)

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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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

For an explanation of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 6, *Ageing, chemical and environmental resistance*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 249, *Plastics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fifth edition cancels and replaces the fourth edition (ISO 4892-3:2016), which has been technically revised.

The main changes are as follows:

- clarification that two fundamentally different types of test chambers exist added (e.g. in [5.2](#), [5.4](#), new Annexes);
- [Table 4](#) has been split into two separate tables for the different types of test chambers, [Table 4](#) applies to condensation type devices and [Table 5](#) to climatic chamber type devices;
- new [Annex B](#) “Condensation type device”, [Annex C](#) “Climatic chamber type device” and [Annex D](#) “Alternative test cycles” have been added;
- reference to CIE 85 has been updated to CIE 241;
- combination of different UV fluorescent lamps have been deleted;
- mandatory [Clause 3](#) “Terms and definitions” has been added and subsequent clauses have been renumbered;
- lamp type designations 1A, 1B, 2 have been deleted.

A list of all parts in the ISO 4892 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.