Plastid. Laboratoorsete valgusallikatega valgustamise meetodid. Osa 2: Kaarlahendusega ksenoonlambid

Plastics - Methods of exposure to laboratory light Aps Concrete of the of sources - Part 2: Xenon-arc lamps



EESTI STANDARDI EESSÕNA NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 4892-2:2006 sisaldab Euroopa standardi EN ISO 4802 2:2006 ingliakoolaat takati	This Estonian standard EVS-EN ISO 4892-2:2006 consists of the English text of the European standard EN ISO 4892
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ametlikus väljaandes.	standardisation organisation.
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Käsitlusala:	Scope:
This part of ISO 4892 specifies methods	This part of ISO 4892 specifies methods
for exposing specimens to xenon-arc light	for exposing specimens to xenon-arc light
the weathering effects that occur when	the weathering effects that occur when
materials are exposed in actual end-use	materials are exposed in actual end-use
environments to daylight or to daylight	environments to daylight or to daylight
filtered through window glass.	filtered through window glass.
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ICS 83.080.01	
Võtmesõnad: artificial light tests, exposur	e, light sources, plastics, xenon lamps
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EUROPEAN STANDARD

EN ISO 4892-2

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English Version

astics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps (ISO 4892-2:2006)

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This European Standard was approved by CEN on 28 October 2005.

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Foreword

This document (EN ISO 4892-2:2006) 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 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of an identical text or by endorsement, at the latest by August 2006, and conflicting national standards shall be withdrawn at the latest by August 2006.

This document supersedes EN ISO 4892-2:1999.

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

Endorsement notice

r The text of ISO 4892-2:2006 has been approved by CEN as EN ISO 4892-2:2006 without any modifications.

INTERNATIONAL STANDARD



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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 2.

The main task of technical committees is to prepare International Standards. 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 document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4892-2 was prepared by Technical Committee ISO/TC 61, Plastics, Subcommittee SC 6, Ageing, chemical and environmental resistance.

This second edition cancels and replaces the first edition (ISO 4892-2:1994), which has been technically revised.

title f. On On Roll of On Other States of Control of Co ISO 4892 consists of the following parts, under the general title Plastics - Methods of exposure to laboratory light sources:

- Part 1: General guidance
- Part 2: Xenon-arc lamps
- Part 3: Fluorescent UV lamps
- Part 4: Open-flame carbon-arc lamps

Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps

1 Scope

This part of ISO 4892 specifies methods for exposing specimens to xenon-arc light in the presence of moisture to reproduce the weathering effects that occur when materials are exposed in actual end-use environments to daylight or to daylight filtered through window glass.

The specimens are exposed to filtered xenon-arc light under controlled conditions (temperature, humidity and/or wetting). Various types of xenon-arc light source and various filter combinations may be used to meet different requirements.

Specimen preparation and evaluation of the results are covered in other International Standards for specific materials.

General guidance is given in ISO 4892-1.

NOTE Xenon-arc exposures of paints and varnishes are described in ISO 11341.

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 4582, Plastics — Determination of changes in colour and variations in properties after exposure to daylight under glass, natural weathering or laboratory light sources

ISO 4892-1, Plastics — Methods of exposure to laboratory light sources — Part 1: General guidance

3 Principle

3.1 A xenon arc, fitted with suitable filters and properly maintained, is used to simulate the spectral power distribution of daylight in the ultraviolet (UV) and visible regions of the spectrum.

3.2 Specimens are exposed to various levels of light, heat, relative humidity and water (see 3.4) under controlled environmental conditions.

3.3 The exposure conditions may be varied by selection of

- a) the light filter(s);
- b) the irradiance level;