

TNI	Plasty Parametre porovnávajúce spektrálnu intenzitu žiarenia laboratórneho svetelného zdroja na použitie na poveternostné starnutie s referenčnou spektrálnou intenzitou slnečného žiarenia (ISO/TR 18486: 2018)	TNI CEN ISO/TR 18486 64 0153
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Plastics - Parameters comparing the spectral irradiance of a laboratory light source for weathering applications to a reference solar spectral irradiance (ISO/TR 18486:2018)

Táto technická normalizačná informácia obsahuje anglickú verziu CEN ISO/TR 18486:2018, ISO/TR 18486:2018. This Technical standard information includes the English version of CEN ISO/TR 18486:2018, ISO/TR 18486:2018.

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Plastics - Parameters comparing the spectral irradiance of a laboratory light source for weathering applications to a reference solar spectral irradiance (ISO/TR 18486:2018)

Plastiques - Paramètres de comparaison de la distribution spectrale d'une source de lumière de laboratoire pour les applications de vieillissement et d'une distribution spectrale solaire de référence (ISO/TR 18486:2018)

Kunststoffe - Berechnung der Qualitätsanpassung der spektralen Verteilung eines Sonnensimulators mit Bezug auf eine referenzspektrale Verteilung der Sonnenstrahlung (ISO/TR 18486:2018)

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CEN ISO/TR 18486:2018 (E)

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European foreword

This document (CEN ISO/TR 18486:2018) 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 NBN.

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This document supersedes CEN ISO/TR 18486:2017.

Endorsement notice

The text of ISO/TR 18486:2018 has been approved by CEN as CEN ISO/TR 18486:2018 without any modification.

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Second edition
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Plastics — Parameters comparing the spectral irradiance of a laboratory light source for weathering applications to a reference solar spectral irradiance

Plastiques — Paramètres de comparaison de la distribution spectrale d'une source de lumière de laboratoire pour les applications de vieillissement et d'une distribution spectrale solaire de référence



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ISO/TR 18486:2018(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.

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This document 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/TR 18486:2016), which has been technically revised. The main changes compared to the previous edition are as follows:

- [Figures 1, 2](#) and [A.1](#): the keys and their key descriptions have been corrected;
- the document has been editorially revised.

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.

Introduction

Laboratory radiation sources generate radiation which is intended to simulate a defined “reference sun” as perfect as possible, where the fitting to the spectral irradiance in the materials sensitive range is most important. So far, the fitting is described verbally only (e.g. standards concerning artificial weathering) and the user decides for himself if the spectral irradiance $E(\lambda)$ indicated by the producer of the laboratory radiation source agrees suitable enough with the “reference sun” for his specific application or, occasionally, the classification describes the fitting to a wanted “reference sun” only insufficiently (e.g. for standard weathering tests).

This document deals with a procedure for the determination of objective factors characterizing the grade of fitting in quantity.

One procedure describes the grade of fitting of a laboratory radiation source to the defined reference sun for specific spectral ranges. A second procedure results in characterizing parameters for the respective wavelength ranges, incorporating known action spectra.

Plastics — Parameters comparing the spectral irradiance of a laboratory light source for weathering applications to a reference solar spectral irradiance

1 Scope

This document specifies a calculation method which allows calculating a parameter which compares the spectral irradiance of a laboratory radiation source for weathering application to a reference solar spectral irradiance.

2 Normative references

There are no normative references in this document.

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