

Irish Standard I.S. EN 1186-3:2022

Version 1.00

Materials and articles in contact with foodstuffs - Plastics -Part 3: Test methods for overall migration in evaporable simulants

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### I.S. EN 1186-3:2022 V1.00

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## Údarás um Chaighdeáin Náisiúnta na hÉireann

## National Foreword

I.S. EN 1186-3:2022 V1.00 is the version of the NSAI adopted European document EN 1186-3:2022, *Materials and articles in contact with foodstuffs - Plastics - Part 3: Test methods for overall migration in evaporable simulants,* including any Corrections, Amendments etc. to EN 1186-3:2022.

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# EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

# EN 1186-3

August 2022

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Supersedes EN 1186-14:2002, EN 1186-15:2002, EN 1186-3:2002, EN 1186-5:2002, EN 1186-7:2002, EN 1186-9:2002

**English Version** 

## Materials and articles in contact with foodstuffs - Plastics -Part 3: Test methods for overall migration in evaporable simulants

Matériaux et objets en contact avec les denrées alimentaires - Matière plastique - Partie 3 : Méthodes d'essai pour la migration globale dans les simulants évaporables Werkstoffe und Gegenstände in Kontakt mit Lebensmitteln - Kunststoffe - Teil 3: Prüfverfahren für die Gesamtmigration in verdampfbaren Simulanzien

This European Standard was approved by CEN on 20 June 2022.

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.

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## I.S. EN 1186-3:2022 V1.00 EN 1186-3:2022 (E)

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## **European foreword**

This document (EN 1186-3:2022) has been prepared by Technical Committee CEN/TC 194 "Utensils in contact with food", the secretariat of which is held by AFNOR.

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 February 2023, and conflicting national standards shall be withdrawn at the latest by February 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.

This document supersedes EN 1186-3:2002, EN 1186-5:2002, EN 1186-7:2002, EN 1186-9:2002, EN 1186-14:2002 and EN 1186-15:2002.

This document implements European Commission Regulation on plastic materials and articles intended to come into contact with food with regards to the determination of the overall migration in food simulants. This regulatory text is subject to change; therefore, it is strongly recommended that users of this document refer to the latest relevant published regulatory texts (to be found on the European Commission website) before commencement of any of the tests described in this document.

In comparison with the previous editions, the following technical modifications have been made:

- removed the regulatory provisions put in the document to avoid the document being obsolete after an update of regulation;
- adapted the method of test to the new conditions defined in the regulation;
- combined in one document the 6 previous standards that use evaporable simulants and which are based on the same principle of measuring.

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

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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.

#### I.S. EN 1186-3:2022 V1.00 EN 1186-3:2022 (E)

## 1 Scope

This document specifies methods for measuring overall migration of plastic materials and articles intended to come into contact with foodstuffs by contacting test specimens with evaporable food simulants at temperatures greater than or equal to 4 °C and not exceeding the reflux temperature.

The overall migration from a sample of the plastics is determined as the loss in mass of non-volatile substances expressed:

- per unit surface area; or
- per kg of food simulant; or
- per article

after contact with a food simulant under defined conditions.

According to the type of materials or shape of articles, contact with the food simulant is carried out on a single surface (pouch, cell, filling) or by immersion.

This document does not cover the interpretation of the results which is expected to account for regulatory requirements.

## 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 648, Laboratory glassware — Single-volume pipettes

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

#### 3.1

### ready-to-use article

article as sold that can be used with minimal if any preparation

## 3.2

sample material or article under test

#### 3.3

## test specimen

part of the sample undergoing a measurement during the test

### 3.4

**piece** portion of a test specimen



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