
9a VUÜjUE'8c`c Yj UbY'cb bYUYfcVbY'V]cfUn[fUX`'jj cgh`Ya VUÜyb] `a UHf]Ucj
j`j cXbYa `a YX]f `E`AYfcXUn`UbU]nc`bUghUUb`Uc[`j_cj Y[UX]c_g]XU

Packaging - Determination of the ultimate aerobic biodegradability of packaging materials in an aqueous medium - Method by analysis of evolved carbon dioxide

Verpackung - Bestimmung der vollständigen aeroben Bioabbaubarkeit von Verpackungsmaterialien in einem wässrigen Medium - Verfahren mittels Analyse des freigesetzten Kohlenstoffdioxids

Emballage - Détermination de la biodégradabilité aérobie ultime des matériaux d'emballage dans un milieu aqueux - Méthode par analyse du dioxyde de carbone libéré

Ta slovenski standard je istoveten z: EN 14047:2002

ICS:

55.020 Pakiranje in distribucija blaga Packaging and distribution of
na splošno goods in general

SIST EN 14047:2003**en**

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EUROPEAN STANDARD

EN 14047

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2002

ICS 55.020

English version

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biodegradability of packaging materials in an aqueous medium -
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This European Standard was approved by CEN on 8 November 2002.

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.

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 Management Centre has the same status as the official versions.

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



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

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EN 14047:2002 (E)

Foreword

This document (EN 14047:2002) has been prepared by Technical Committee CEN/TC 261 "Packaging", 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 June 2003, and conflicting national standards shall be withdrawn at the latest by June 2003.

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

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1 Scope

This standard specifies a method to evaluate the ultimate biodegradability of packaging materials and its constituents by measurement of CO₂ evolution.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 13432, *Packaging — Requirements for packaging recoverable through composting and biodegradation — Test scheme and evaluation criteria for the final acceptance of packaging.*

ISO 14852, *Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium — Method by analysis of evolved carbon dioxide.*

3 Requirements

Packaging materials of its constituents which are used for the application as packaging or packaging components to be introduced as organically recoverable have to verify its ultimate biodegradability if required, in accordance with EN 13432. If a respirometric method by measurement of the CO₂ evolution has been selected, ISO 14852 shall be used to perform this test.

The named ISO test method - which is defined originally for plastics - shall be applied to all materials or constituents, for which biodegradability testing is being required, in the analogous way as for plastics.