

Pakend. Kompostimise ja biolagunemise teel taaskasutatavale pakendile esitatavad nõuded. Pakendi lõplikult kõlblikuks tunnistamisel kasutatava testimise kord ja hindamiskriteeriumid

Packaging - Requirements for packaging recoverable through composting and biodegradation - Test scheme and evaluation criteria for the final acceptance of packaging

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13432:2001 sisaldab Euroopa standardi EN 13432:2000 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 16.02.2001 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

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ICS 13.030.99; 55.020

English version

Packaging

**Requirements for packaging recoverable through composting
and biodegradation**

Test scheme and evaluation criteria for the final acceptance of packaging

Emballage – Exigences relatives aux emballages valorisables par compostage et biodégradation – Programme d'essai et critères d'évaluation de l'acceptation finale des emballages

Verpackung – Anforderungen an die Verwertung von Verpackungen durch Kompostierung und biologischen Abbau – Prüfschema und Bewertungskriterien für die Einstufung von Verpackungen

This European Standard was approved by CEN on 2000-06-04.

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex Z, which is an integral part of this standard.

This standard forms one of a series of standards and reports prepared under Mandate M 200 rev.3 given to CEN by the European Commission and the European Free Trade Association to support the European Council and Parliament Directive on Packaging and Packaging Waste [94/62/EC]. The procedure for applying this standard in conjunction with the other mandated standards and reports is specified in EN 13427.

This standard contains Annexes A and E which are normative and Annexes B, C, D and Z which are informative

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 March 2001, and conflicting national standards shall be withdrawn at the latest by March 2001.

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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

The Directive on Packaging and Packaging Waste (94/62/EC) defines requirements for packaging to be considered recoverable. This standard amplifies these requirements with respect to organic recovery. The European Standard EN 13427:2000 provides a framework within which this and four other standards may be used together to support a claim that a packaging is in compliance with the essential requirements for packaging to be placed on the market as required by the Directive.

The purpose of packaging is the containment, protection, handling, delivery and presentation of products. Organic recovery of used packaging is one of several recovery options within the overall life cycle of packaging. In order to save resources and minimise waste, the whole system in which the packaging takes part should be optimised. This includes prevention as well as reuse and recovery of packaging waste.

This European Standard presents a framework for self-assessment to determine whether the requirements of this standard have been met. Its approach is similar to that of systems standards such as the EN ISO 9000 and EN ISO 14000 series.

Organic recovery of packaging and packaging materials, which includes aerobic composting and anaerobic biogasification of packaging in municipal or industrial biological waste treatment facilities is an option for reducing and recycling packaging waste. Using these biological technologies, the aims of the Directive 94/62/EC of the European Parliament and of the Council on Packaging and Packaging Waste (Brussels 5 December 1994) in this respect can be met.

1 Scope

This European Standard specifies requirements and procedures to determine the compostability and anaerobic treatability of packaging and packaging materials by addressing four characteristics :

- 1) biodegradability,
- 2) disintegration during biological treatment,
- 3) effect on the biological treatment process and
- 4) effect on the quality of the resulting compost.

In case of a packaging formed by different components, some of which are compostable and some other not, the packaging itself, as a whole is not compostable. However, if the components can be easily separated by hand before disposal, the compostable components can be effectively considered and treated as such, once separated from the non compostable components.

This European Standard covers the compostability of packaging itself but does not address regulations that may exist regarding the compostability of any residual contents.

This European Standard makes provision for obtaining information on the processing of packaging in controlled waste treatment plants but does not take into account packaging waste which may end up in the environment, through uncontrolled means, i.e. as litter.

The essential relationship between this European Standard and the four other (mandated) European Packaging Standards and one (mandated) CEN Report is specified in EN 13427:2000.

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.

EN 13193:2000, *Packaging - Packaging and the environment – Terminology*.

EN 13427:2000, *Packaging and the environment - Requirements for the use of European standards in the field of packaging and packaging waste*.

.ISO 14851 : 1999, *Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium - Method by measuring the oxygen demand in a closed respirometer*.

ISO 14852 : 1999, *Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium - Method by analysis of evolved carbon dioxide*.

ISO 14855 : 1999, *Determination of the ultimate aerobic biodegradability and disintegration of plastic materials under controlled composting conditions - Method by analysis of evolved carbon dioxide..*

3 Terms and definitions

For the purposes of this standard, the following terms and definitions and those given in EN 13193:2000 and EN 13427:2000 apply :

3.1

constituent of a packaging material

all pure chemical materials and substances of which a packaging material is composed