

**Packaging and material recycling -
Criteria for recycling methods -
Description of recycling processes and
flow chart**

Packaging and material recycling - Criteria for
recycling methods - Description of recycling
processes and flow chart

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13437:2003 sisaldab Euroopa standardi EN 13437:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 06.06.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13437:2003 consists of the English text of the European standard EN 13437:2003.</p> <p>This document is endorsed on 06.06.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard defines the criteria for a recycling process and describes the principal existing processes for material recycling and their inter-relationship. Both packaging and recovery technologies are subject to continuing and rapid development. This European Standard describes the present stage of knowledge but may be subject to modifications in the light of new developments</p>	<p>Scope:</p> <p>This European Standard defines the criteria for a recycling process and describes the principal existing processes for material recycling and their inter-relationship. Both packaging and recovery technologies are subject to continuing and rapid development. This European Standard describes the present stage of knowledge but may be subject to modifications in the light of new developments</p>
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ICS 13.030.50, 55.040

Võtmesõnad:

ICS 13.030.50; 55.040

English version

**Packaging and material recycling - Criteria for recycling methods
- Description of recycling processes and flow chart**

Emballages et recyclage matière - Critères pour les
méthodes de recyclage - Description des procédés de
recyclage et schéma de flux

Verpackungen und stoffliche Verwertung - Kriterien für
stoffliche Verwertungsverfahren - Beschreibung von
stofflichen Verwertungsprozessen und Flußdiagrammen

This European Standard was approved by CEN on 11 March 2003.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document (EN 13437:2003) 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 November 2003, and conflicting national standards shall be withdrawn at the latest by November 2003.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document contains Annexes A, B, C, D, E, F, G and H which are normative.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

The Directive on Packaging and Packaging Waste (94/62/EC) defines requirements for the manufacturing and composition of packaging. EN 13427 provides a framework within which this and 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.

This European Standard outlines the stages through which packaging passes from raw material to the recovery of the used packaging after it has served its purpose. It amplifies these requirements by describing the process of material recycling for the various materials used for packaging and its principal aim is to provide practical guidance.

The recycling processes used for the recovery of used packaging, (which are often comprised of more than one material) and other used applications, are influenced by three main aspects:

- 1) the material from which the product is manufactured;
- 2) the source of the used packaging; and
- 3) the application for which the recycled material is intended to be used.

Consideration of all these aspects is necessary in order to optimise the technical, economic and environmental effectiveness of the recovery operations. This European Standard describes the recycling operations for the main material types and their position within the overall material production, use and recovery cycle.

Material recycling of used packaging should be seen within the overall life cycle of products and packaging. The purpose of packaging is the containment, protection, distribution and presentation of products including instructions as to their use. A major role is one of prevention of damage/wastage of the products contained in the packaging.

1 Scope

This European Standard defines the criteria for a recycling process and describes the principal existing processes for material recycling and their inter-relationship.

Both packaging and recovery technologies are subject to continuing and rapid development. This European Standard describes the present stage of knowledge but may be subject to modifications in the light of new developments.

The essential relationship between this and the five mandated European Packaging Standards and one (mandated) CEN Report is specified in EN 13427.

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 643, *Paper and board – European list of standard grades of recovered paper and board.*

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply:

3.1

packaging

all products made of any materials of any nature to be used for the containment, protection, handling, delivery and presentation of goods, from raw materials to processed goods, from the producer to the user or the consumer

"Non returnable" items used for the same purpose shall also be considered to constitute packaging.

[Directive 94/62/EC]

3.2

recycling

reprocessing in a production process of the waste materials for the original purpose or for other purposes including organic recycling but excluding energy recovery

[Directive 94/62/EC]

3.3

feedstock recycling

recycling whereby typically organic materials are converted into low-molecular weight products which are reused for the production of other materials or in other chemical/production processes

3.4

packaging waste

any packaging or packaging material covered by the definition of waste in Directive 75/442/EEC, excluding production residues

[Directive 94/62/EC]

3.5

scrap

material which has passed through one or more of the operations of production, conversion and filling but is not part of the packaging or the packaging material sold for its intended purpose