



DPC: 24/30478295 DC

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Date: 19 September 2024

Origin: European

Latest date for receipt of comments: 12 November 2024

Project No. 2023/01801

Responsible committee: PKW/0 Packaging

Interested committees:

Title: Draft BS EN 18120-1 BS Packaging - Design for recycling of plastic packaging. Part 1: Definitions and principles for design-for-recycling of plastic packaging.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

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- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Full document details: 24/30478295 DC

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

Packaging - Design for recycling of plastic packaging - Part 1: Definitions and principles for design-for-recycling of plastic packaging

Emballages - Conception des emballages plastiques en
vue de leur recyclage - Partie 1 : Définitions et
principes liés à la conception des emballages plastiques
en vue de leur recyclage

Verpackung - Recyclingorientierte Gestaltung von
Kunststoffverpackungsprodukten - Teil 1: Definitionen
und Grundsätze für die recyclingorientierte Gestaltung
von Kunststoffverpackungen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 261.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

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European foreword

This document (prEN 18120-1:2024) has been prepared by Technical Committee CEN/TC 261 “Packaging”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

Introduction

EN 18120 consisting of 15 parts aims via a series of guidelines and protocols to establish consistency and improvement for the Design for recycling of household, industrial and commercial plastic packaging.

- Part 1: Definitions and principles for design-for-recycling of plastic packaging
- Part 2: Process and governance to evaluate the recyclability of plastic packaging
- Part 3: Sorting evaluation process for plastic packaging
- Part 4: Guideline for PET bottles
- Part 5: Guideline for PET other rigid packaging
- Part 6: Guideline for PE and PP rigid packaging
- Part 7: Guideline and protocols for PE and PP flexible packaging
- Part 8: Guideline for PS and XPS packaging
- Part 9: Guideline for EPS packaging
- Part 10: Recyclability evaluation process for plastic packaging — Protocols for PET bottles
- Part 11: Recyclability evaluation process for plastic packaging — Protocols for PET other rigid packaging
- Part 12: Recyclability evaluation process for plastic packaging — Protocols for PE and PP rigid packaging
- Part 13: Recyclability evaluation process for plastic packaging — Protocols for PE and PP flexible packaging
- Part 14: Recyclability evaluation process for plastic packaging — Protocols for PS and XPS packaging
- Part 15: Recyclability evaluation process for plastic packaging — Protocols for EPS packaging

Design for recycling guidelines are a common way of describing compatibility with plastic packaging collection, sorting and recycling into high quality recycled plastic into state-of-the-art facilities. They provide guidance on the level compatibility, defined as:

- green: Packaging constituents with full compatibility with recycling;
- yellow: Packaging constituents with limited compatibility with recycling;
- red: Packaging constituents which are not compatible with recycling.

Recyclability guidelines will require regular review and improvement to reflect innovations in design, collection, sorting and recycling.

The Design for Recycling Guidelines provided in this series of standards are representative of the state of the art in Europe and cover all steps from design for recycling, packaging waste collection, sorting, recycling into recycled plastic and to use in a new application.

Packaging recyclability is the combination of five parameters: packaging designed for recycling, packaging waste collection, sorting when necessary, recycling and use of recycled plastic in a new application. This series of standards covers one parameter: the design for recycling.

1 Scope

This document provides a process that manages the identification of the level of compatibility of plastic packaging features with collection, sorting and recycling, describing the level of compatibility as fully, limited, and not recyclable.

This standard covers any plastic packaging where the main body is made of plastic material. It targets to harmonize the design for recycling standard approach for each resin.

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.

prEN 18120-3, *Packaging — Design for recycling of plastic packaging — Part 3: Sorting evaluation process for plastic packaging*

prEN 18120-10, *Packaging — Design for recycling of plastic packaging — Part 10: Recyclability evaluation process for plastic packaging — Protocols for PET bottles*

prEN 18120-11, *Packaging — Design for recycling of plastic packaging — Part 11: Recyclability evaluation process for plastic packaging — Protocols for PET rigid packaging (except bottles)*

prEN 18120-12, *Packaging — Design for recycling of plastic packaging — Part 12: Recyclability evaluation process for plastic packaging — Protocols for PE and PP rigid packaging*

prEN 18120-13, *Packaging — Design for recycling of plastic packaging — Part 13: Recyclability evaluation process for plastic packaging — Protocols for PE and PP flexible packaging*

prEN 18120-14, *Packaging — Design for recycling of plastic packaging — Part 14: Recyclability evaluation process for plastic packaging — Protocols for PS and XPS packaging*

prEN 18120-15, *Packaging — Design for recycling of plastic packaging — Part 15: Recyclability evaluation process for plastic packaging — Protocols for EPS packaging*

3 Terms and definitions

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

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

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

3.1

sales packaging

packaging conceived so as to constitute a sales unit consisting of products and packaging to the end user at the point of sale

3.2

grouped packaging

packaging conceived so as to constitute a grouping of a certain number of sales units at the point of sale whether the latter is sold as such to the end user or it serves only as a means to replenish the shelves at

the point of sale or create a stock-keeping or distribution unit, and which can be removed from the product without affecting its characteristics

3.3

transport packaging

packaging conceived so as to facilitate handling and transport of one or more sales units or grouped packages, including e-commerce packaging but excluding road, rail, ship and air containers, in order to prevent damage to the product from physical handling and transport

3.4

unit of packaging

means a unit as a whole, including any integrated or separate components, which together serve a packaging function such as the containment, protection, handling, delivery, storage, transport and presentation of products, and including independent units of grouped or transport packaging where they are discarded prior to the point of sale

3.5

green category

category for identifying components or constituents of a plastic packaging that is in the scope of the design for recycling guidelines of a given packaging type that are recognized as compatible with state-of-the-art collection, sorting and recycling or are demonstrated as suitable for recycling through technical evaluation and can fully meet the quality requirements of secondary raw material in the recycling process

3.6

yellow category

category for identifying components or constituents of a plastic packaging that is in the scope of the design for recycling guidelines of a given packaging type are recognized as acceptable with limited compatibility with state-of-the-art collection, sorting and recycling, or are demonstrated as having limited compatibility through technical evaluation or will not meet all quality requirements of secondary raw material in the recycling process

3.7

red category

category for identifying components or constituents of a plastic packaging that is in the scope of the design for recycling guidelines of a given packaging type generally leads to rejection of the packaging item in sorting or recycling processes or are generally recognized as detrimental (disrupting) for recycling or are demonstrated as disrupting for recycling through technical evaluation or are demonstrated as unacceptable downgrading the yield or the quality of recycled plastic

3.8

state of the art

generally recognised good practice in the European market, fulfilling the following non-exhaustive criteria: proven and commercially available, technology at TRL9, delivering sufficient results in terms of yield and quality, already in use in the European market, affordable to relevant economic operators in the EU

Note 1 to entry: Preferably non-proprietary technology (i.e. technology that is openly available to the packaging users) is considered.

3.9

integrated component

packaging component that may be distinct from the main body of the packaging unit, and may be of a different material, but is integral to the packaging unit and its functioning and does not need to be