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Interested committees:

Title: Draft BS EN 18120-12 BS Packaging - Design for recycling for plastic packaging. Part 12: Recyclability evaluation process for plastic packaging - Protocols for PE and PP rigid 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

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Full document details: 24/30494140 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 Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.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 for plastic packaging -
Part 12: Recyclability evaluation process for plastic
packaging - Protocols for PE and PP rigid packaging

Emballages - Conception des emballages plastiques en
vue de leur recyclage - Partie 12 : Processus
d'évaluation de la recyclabilité des emballages
plastiques - Protocoles pour les emballages rigides en
PE et PP

Verpackung - Recyclingorientierte Gestaltung von
Kunststoffverpackungsprodukten - Teil 12 - Verfahren
zur Bewertung der Recyclingfähigkeit von
Kunststoffverpackungen - Protokolle für starre
Verpackungen aus PE und PP

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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Contents	Page
<i>European foreword</i>	3
<i>Introduction</i>	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Recyclability evaluation process	7
4.1 Principle	7
4.2 Sampling	8
4.2.1 Test material requirements	8
4.2.2 Control sample selection	9
4.2.3 Virgin resin selection	9
4.3 Test method	9
4.4 Test report	9
4.5 Evaluation	9
<i>Annex A (normative) Experimental determination of the technical recyclability of PE and PP rigid packaging samples</i>	10
A.1 Principle	10
A.1.1 Apparatus	10
A.1.2 Reagents and consumables	11
A.1.3 Sampling	11
A.1.4 Procedure	11
A.1.5 Expression of results.....	17
A.1.6 Test report.....	17
<i>Annex B (normative) Recommendations for control materials</i>	20
<i>Annex C (informative) Benchmark recommendations for the assessment of technical recyclability</i>	21
<i>Bibliography</i>	23

European foreword

This document (prEN 18120-12:2024) 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: Sortability evaluation process for plastic packaging
- Part 4: Guideline for PET bottles
- Part 5: Guideline for PET rigid packaging (except bottle)
- 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 covers the design of PE and PP rigid with respect to compatibility of the design with recycling processes.

Packaging constituents and packaging components made of other materials than PE and PP are also covered by this document as they need to be evaluated on compatibility with polymer recycling.

2 Normative references

The following documents are referred to in the text in such a way that 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 18120-1, *Packaging — Design for recycling of plastic packaging — Part 1: Definitions and principles for design-for-recycling of plastic packaging*

EN ISO 178, *Plastics — Determination of flexural properties (ISO 178)*

EN ISO 527-1:2019, *Plastics — Determination of tensile properties — Part 1: General principles (ISO 527-1:2019)*

EN ISO 527 series, *Plastics — Determination of tensile properties*

ISO 1133-1, *Plastics — Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics — Part 1: Standard method (ISO 1133-1)*

EN ISO 18314-1, *Analytical colourimetry — Part 1: Practical colour measurement (ISO 18314-1)*

EN ISO 1183-1, *Plastics — Methods for determining the density of non-cellular plastics — Part 1: Immersion method, liquid pycnometer method and titration method (ISO 1183-1)*

EN ISO 3451-1, *Plastics — Determination of ash — Part 1: General methods*

ISO 11357-1, *Plastics — Differential scanning calorimetry (DSC) — Part 1: General principles*

ISO 11357-3, *Plastics — Differential scanning calorimetry (DSC) — Part 3: Determination of temperature and enthalpy of melting and crystallization*

ISO 11358-1, *Plastics — Thermogravimetry (TG) of polymers — Part 1: General principles*

EN ISO 15512:2019, *Plastics — Determination of water content (ISO 15512:2019)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in prEN 18120-1 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/>