
Embalaža - Načrtovanje za recikliranje plastične embalaže - 14. del: Postopek za ocenjevanje zmožnosti recikliranja plastične embalaže - Protokoli za togo embalažo iz polistirena (PS) in ekstrudiranega polistirena (XPS)

Packaging - Design for recycling of plastic packaging - Part 14: Recyclability evaluation process for plastic packaging - Protocols for PS and XPS rigid packaging

Verpackung - Recyclingorientierte Gestaltung von Kunststoffverpackungsprodukten - Teil 14 - Verfahren zur Bewertung der Recyclingfähigkeit von Kunststoffverpackungen - Protokolle für Verpackungen aus PS und XPS

Emballages - Conception des emballages plastiques en vue de leur recyclage - Partie 14 : Processus d'évaluation de la recyclabilité des emballages plastiques - Protocoles pour les emballages en PS et XPS

Ta slovenski standard je istoveten z: EN 18120-14:2026

ICS:

13.030.50	Recikliranje	Recycling
55.020	Pakiranje in distribucija blaga na splošno	Packaging and distribution of goods in general
83.080.20	Plastomeri	Thermoplastic materials

SIST EN 18120-14:2026**en,fr,de**

Sample Document

get full document from standards.iteh.ai

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 18120-14

April 2026

ICS 13.030.50; 55.020

English Version

**Packaging - Design for recycling of plastic packaging - Part
14: Recyclability evaluation process for plastic packaging -
Protocols for PS and XPS rigid packaging**

Emballages - Conception des emballages plastiques en
vue de leur recyclage - Partie 14 : Processus
d'évaluation de la recyclabilité des emballages
plastiques - Protocoles pour les emballages en PS et
XPS

Verpackung - Recyclingorientierte Gestaltung von
Kunststoffverpackungsprodukten - Teil 14 - Verfahren
zur Bewertung der Recyclingfähigkeit von
Kunststoffverpackungen - Protokolle für Verpackungen
aus PS und XPS

This European Standard was approved by CEN on 9 February 2026.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

© 2026 CEN All rights of exploitation in any form and by any means reserved
worldwide for CEN national Members.

Ref. No. EN 18120-14:2026 E

Contents	Page
European foreword	3
Introduction	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Recyclability evaluation process	7
4.1 Principle	7
4.2 Applicable unit operations	7
4.3 Applicable unit operations depending on packaging type	9
4.4 Test procedures	10
4.4.1 Pretreatment - Grinding	10
4.4.2 Pretreatment - Washing	10
4.4.3 Pretreatment - Floatation	11
4.4.4 Pretreatment - Air elutriation	12
4.4.5 Pretreatment - Drying	12
4.4.6 Flake blends preparation and composition	12
4.4.7 Extrusion - Pellet characterization	13
4.4.8 Converting - Injection moulding and plates characterization	14
4.4.9 Converting - pellet blends preparation	15
Annex A (informative) Virgin samples selection	17
Bibliography	18

get full document from standards.iteh.ai

European foreword

This document (EN 18120-14:2026) 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 October 2026, and conflicting national standards shall be withdrawn at the latest by October 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Sample Document

get full document from standards.iteh.ai

EN 18120-14:2026 (E)**Introduction**

The EN 18120 series, under the general title *Packaging — Design for recycling of plastic packaging*, which 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, consists of the following parts:

- *Part 1: Definitions and principles for design-for-recycling of plastic packaging*
- *Part 3: Evaluation processes for the sortability of plastic packaging*
- *Part 4: Guideline for PET bottles*
- *Part 5: Guideline for PET rigid packaging (except bottles)*
- *Part 6: Guideline for PE and PP rigid packaging*
- *Part 7: Guideline for PE and PP flexible packaging*
- *Part 8: Guideline for PS and XPS rigid 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 rigid packaging (except bottles)*
- *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 rigid packaging*
- *Part 15: Recyclability evaluation process for plastic packaging — Protocols for EPS packaging*

Design for recycling guidelines are a common way of evaluating the compatibility with plastic-packaging collection, sorting and recycling which enables the use of secondary raw materials that are of sufficient quality when compared to the original material, in state-of-the-art facilities.

They provide guidance on the level of compatibility, defined as:

- green: packaging constituents and components with full compatibility with state-of-the-art collection, sorting and recycling;
- yellow: packaging constituents and components with limited compatibility with state-of-the-art collection, sorting and recycling;
- red: packaging constituents and components which are not compatible with state-of-the-art collection, sorting and recycling.

The design for recycling guidelines provided in the EN 18120 series cover the design for recycling based on the knowledge available at the time of the development of this document and are representative of the

state-of-the-art. They consider packaging waste collection, sorting and recycling, so that the recycled plastic can substitute primary raw materials in packaging application or other applications. Compliance with the design guidelines in the EN 18120 series does not guarantee that the recycled plastic quality will be fit for purpose for a specific targeted end application or compliant with applicable regulations.

Packaging recyclability is the combination of design of recycling, proven collection, sorting and recycling in practice.

Sample Document

get full document from standards.iteh.ai