

STN	Plasty Triedený plastový odpad Časť 2: Stupne kvality triedeného odpadu z polyetylénu (PE) a špecifické skúšobné metódy	STN EN 15347-2 64 8101
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Plastics - Sorted plastics wastes - Part 2: Quality grades of sorted polyethylene (PE) wastes and specific test methods

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/25

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EN 15347-2

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English Version

Plastics - Sorted plastics wastes - Part 2: Quality grades of sorted polyethylene (PE) wastes and specific test methods

Plastiques - Déchets de plastiques triés - Partie 2 :
Grades de qualité des déchets de polyéthylène (PE)
triés et méthodes d'essai spécifiques

Kunststoffe - Sortierte Kunststoffabfälle - Teil 2:
Qualitätsstufen von sortierten Polyethylen(PE)-
Abfällen und spezifische Prüfverfahren

This European Standard was approved by CEN on 21 April 2025.

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EN 15347-2:2025 (E)

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European foreword

This document (EN 15347-2:2025) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by SIS.

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of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.

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 is part of CEN publications on plastics recycling, listed as follows:

- EN 15342, *Plastics — Recycled plastics — Characterization of polystyrene (PS) recyclates*
- EN 15343, *Plastics — Recycled plastics — Plastics recycling traceability and assessment of conformity and recycled content*
- EN 15344, *Plastics — Recycled plastics — Characterization of polyethylene (PE) recyclates*
- EN 15345, *Plastics — Recycled plastics — Characterization of polypropylene (PP) recyclates*
- EN 15346, *Plastics — Recycled plastics — Characterization of poly(vinyl chloride) (PVC) recyclates*
- EN 15347 (all parts), *Plastics — Sorted plastics wastes*
- EN 15348, *Plastics — Recycled plastics — Characterization of poly(ethylene terephthalate) (PET) recyclates*
- EN 18064 (all parts), *Plastics — Quality recommendations and basis for specifications for application of plastic recyclates in products*
- EN 18065, *Plastics — Recycled plastics — Classification of recycled plastics based on Data Quality Levels for use and (digital) trading*
- EN 18067, *Plastics — Recycled plastics — Characterization of acrylonitrile-butadiene-styrene (ABS) recyclates*
- CEN/TR 15353, *Plastics — Recycled plastics — Guidelines for the development of standards for recycled plastics*
- CEN/TR 18160, *Plastics recycling — Classification of plastic recyclates as post-consumer recyclates (PCR) and post-industrial recyclates (PIR)*

This document has been prepared under a standardization request addressed to CEN and CENELEC 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.

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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.

Introduction

Low-density polyethylene (LDPE) is used in film applications for primary, secondary, or tertiary packaging where it plays an important part in household, but also commercial and industrial packaging. Additionally, films are widely used in agriculture either in the construction of greenhouses or as mulch film.

High-density polyethylene (HDPE) is widely used in many plastic applications across various sectors. HDPE is predominant in packaging, both household and commercial where it is widely used in the production of pallets and crates for transport. Particularly, commercial and industrial packaging will be quite uniform which is regarded as a high value for plastic recycling. It is also relevant in building and construction and agriculture where it is used mainly in insulation materials, pipes, and irrigation systems. Finally, HDPE is also used widely in household and leisure applications.

The disposal and collection of household PE waste is usually organized in comingled systems together with other packaging materials such as aluminium or cardboard (depending on EU Member State) that will be sorted out from impurities and in different recycling streams at a later stage.

Commercial and industrial applications are usually collected via private schemes. Bulky materials/products/parts of products (as household and leisure ones) are collected via dedicated collection. These will be sent to a sorting centre and separated into different polymer recycling streams.

PE plastic waste is characterized to determine the composition and quality of the batch. A clear and harmonized waste specification facilitates a transaction between the supplier and customer and establishes standard characteristics to monitor during any sorting or preparation of waste operations.

This document complements the general characterization of waste specified in EN 15347-1 and adds additional clarification when it comes to the required and optional requirements of PE waste. Characteristics are specified for waste originating from products part of the packaging, building and construction, household, leisure and sports and agriculture sectors.

This document has been produced in accordance with the guidance produced by CEN on Environmental Aspects and in accordance with CEN/TR 15353.

NOTE CEN/TR 15353 considers the general environmental aspects which are specific to the recycling process.

EN 15347-2:2025 (E)**1 Scope**

This document specifies the quality grades for sorted Polyethylene (PE) wastes as well as specific test methods laying out those properties for which the supplying party of the waste makes information available to the receiving party. Polyethylene waste quality grades are based on pre-determined sets of characteristics, taking into account sectorial and market specificities and related information needs and tests methods. The document provides for a division of information between “Required Data”, where a statement is required, and additional “Optional Data” as agreed between the supplying and receiving party.

This document does not apply to the general characterization addressed in EN 15347-1.

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.

CEN/TR 15353, *Plastics — Recycled plastics — Guidelines for the development of standards for recycled plastics*

EN 15347-1:2024, *Plastics — Sorted plastics wastes — Part 1: General characterisation*

EN 17615, *Plastics — Environmental Aspects — Vocabulary*

EN ISO 1043-1, *Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics (ISO 1043-1)*

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