



SLOVENSKI STANDARD
oSIST prEN 15347-6:2024
01-junij-2024

Polimerni materiali - Razvrščeni odpadki iz polimernih materialov - 6. del: Stopnje kakovosti sortiranega odpadnega polistirena (PS) in posebne preskusne metode

Plastics - Sorted plastics wastes - Part 6: Quality grades of sorted polystyrene (PS) wastes and specific test methods

Kunststoffe - Sortierte Kunststoffabfälle - Teil 6: Qualitätsstufen von sortierten Polystyrol (PS)-Abfällen und spezifische Prüfverfahren

Plastiques - Déchets de plastiques triés - Partie 6: Grades de qualité des déchets de polystyrène (PS) triés et méthodes d'essai spécifiques

Ta slovenski standard je istoveten z: prEN 15347-6

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ICS:

13.030.50	Recikliranje	Recycling
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English Version

Plastics - Sorted plastics wastes - Part 6: Quality grades of sorted polystyrene (PS) wastes and specific test methods

Kunststoffe - Güteklassen für sortierte
Kunststoffabfälle - Teil 6: Polystyrol (PS)

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 249.

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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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European foreword

This document (prEN 15347-6:2024) has been prepared by Technical Committee CEN/TC 249 “Plastics”, the secretariat of which is held by SIS.

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.

This document is one part of a series of CEN publications on Plastics Recycling, which is structured 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*
- CEN/TR 15353, *Plastics — Recycled plastics — Guidelines for the development of standards for recycled plastics*

Any feedback and questions on this document can 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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Introduction

Polystyrene (PS) is mainly used in the packaging sector mainly for food contact applications. Furthermore, PS can be air-filled to create EPS (expanded polystyrene) and XPS (extruded polystyrene), mainly used in packaging applications. Due to its resistance to high impact, it is also often used as protective packaging to electronics and home appliances. waste. Characteristics are defined for products part of the Packaging and Building and Construction sectors. PS as EPS and XPS is also used in building and construction applications for insulation in walls, roofs and floors.

PS waste is generally collected via separate collection schemes – commonly comingled together with other plastics and materials such as aluminium and cardboard (depending on EU Member State) which will be sorted in sorting centres at a later stage in established recycling streams for recycling. PS will be sorted separately or together with other mixed plastics where it can be separated later at the recycler with additional sorting steps.

The collection of household PS is organized via separate collection – usually comingled with other plastics and other materials such as aluminium and cardboard (depending on EU Member State) that will be later sorted out in different recycling streams at a later stage in a sorting centre prior reaching the recycler. Packaging used in commercial or industrial applications such as fish boxes can be collected via closed loop systems or private schemes where the PS waste will be directly sent to an PS recycler. In those cases, PS waste will commonly be pressed into blocks to remove the air on site to facilitate the transport of the waste.

PS waste from building and construction originated in demolition sites will be collected via private schemes and it will be sent directly to the recycler.

PS, XPS and EPS 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 purchaser and establishes standard characteristics to monitor during any sorting or preparation of waste operations.

This document complements the general characterization of waste described in EN 15347-1¹ and adds additional clarification when it comes to the required and optional requirements of PS, XPS and EPS waste. Characteristics are defined for products part of the Packaging and Building and Construction 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.

¹ Under preparation. Current stage is: FprEN 15347-1:2024.