



**SLOVENSKI STANDARD**  
**oSIST prEN 18064-1:2024**  
**01-april-2024**

---

**Polimerni materiali - Priporočila za kakovost in podlaga za specifikacije za uporabo polimernih reciklatov v izdelkih - 1. del: Splošni vidiki**

Plastics - Quality recommendations and basis for specifications for application of plastic recyclates in products - Part 1: General aspects

Kunststoffe - Qualitätsempfehlungen und Grundlagen für Spezifikationen für die Verwendung von Kunststoffrecyklaten in Produkten - Teil 1: Allgemeines

Plastiques - Recommandations qualité et base de spécification pour l'application des recyclats de plastiques dans les produits - Partie 1 : Aspects généraux

**Ta slovenski standard je istoveten z: prEN 18064-1**

oSIST prEN 18064-1:2024

**ICS:**

13.030.50	Recikliranje	Recycling
83.080.01	Polimerni materiali na splošno	Plastics in general

**oSIST prEN 18064-1:2024**

**en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 18064-1**

April 2024

ICS 13.030.50; 83.080.01; 83.140.01

English Version

## Plastics - Quality recommendations and basis for specifications for application of plastic recyclates in products - Part 1: General aspects

Kunststoffe - Qualitätsempfehlungen und Grundlagen für Spezifikationen für die Verwendung von Kunststoffrecyklaten in Produkten - Teil 1: Allgemeines

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.

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.

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

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

<b>Contents</b>		<b>Page</b>
<b>European foreword</b> .....		<b>3</b>
<b>Introduction</b> .....		<b>4</b>
<b>1</b>	<b>Scope</b> .....	<b>7</b>
<b>2</b>	<b>Normative references</b> .....	<b>7</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>8</b>
<b>4</b>	<b>System of designation for recyclates</b> .....	<b>8</b>
<b>4.1</b>	<b>General</b> .....	<b>8</b>
<b>5</b>	<b>Selection of relevant properties for recyclates</b> .....	<b>11</b>
<b>6</b>	<b>Categorization of plastics applications and requirements</b> .....	<b>12</b>
<b>Bibliography</b> .....		<b>13</b>

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[oSIST prEN 18064-1:2024](https://standards.iteh.ai/catalog/standards/sist/a6667320-571c-42e3-a84c-36a9f198c295/osist-pren-18064-1-2024)

<https://standards.iteh.ai/catalog/standards/sist/a6667320-571c-42e3-a84c-36a9f198c295/osist-pren-18064-1-2024>

## European foreword

This document (prEN 18064-1:2024) 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.

It is supported by other standards on test methods to which references are made throughout this document.

This series of standards consist of a general part, this standard, and material specific parts.

EN 18064, *Plastics — Quality recommendations and basis for specifications for application of plastic recyclates in products*, is currently composed with the following parts:

- *Part 1: General aspects*
- *Part 2: Polyethylene (PE)*
- *Part 3: Polypropylene (PP)*
- *Part 4: Poly(ethylene terephthalate) (PET)*
- *Part 5: Poly(vinyl chloride) (PVC)*
- *Part 6: Polystyrene (PS)*
- *Part 7: Acrylonitrile-butadiene-styrene (ABS)*

NOTE Part 6 for PS also includes EPS and XPS.

iTeh Standards  
(<https://standards.iteh.ai>)  
Document Preview

[oSIST prEN 18064-1:2024](https://standards.iteh.ai/catalog/standards/sist/a6667320-571c-42e3-a84c-36a9f198c295/osist-pren-18064-1-2024)

<https://standards.iteh.ai/catalog/standards/sist/a6667320-571c-42e3-a84c-36a9f198c295/osist-pren-18064-1-2024>

## Introduction

The European Union's commitment to the circular economy, as outlined in the Circular Economy Action Plan and the Green Deal, has set ambitious targets for reducing reliance on fossil-based plastics and promoting the use of recyclates in new products. By 2030, the aim is to replace 50 % of fossil-based feedstock with sustainable alternatives, and by 2050, the goal is 100 %. These policies have far-reaching implications for the plastics industry and its stakeholders.

The Circular Plastics Alliance (CPA) plays a crucial role in achieving the EU's goal of using 10 million tons of recycle in new products by 2025. This alliance comprises stakeholders from across the plastics value chain and focuses on various markets, including agriculture, construction, packaging, electronics, and automotive. The CPA, in collaboration with CEN/CENELEC and the European Commission, has taken steps to create a technical framework for the use of recycle in Europe. A standardization request from the European Commission (M/584) to CEN and CENELEC has laid the foundation for fulfilling this commitment, with Demand Driven Standards at its core.

This standards series is answering to the European Standardization Request M/584<sup>1</sup>. European standardization deliverable(s) on quality assessment of plastic recyclates for use in products are expected for: rPE, rPP, rPET, rPVC, rPS (including rEPS and rXPS), rABS.

Together with other standards under M/584 this series creates an aligned demand driven system for transfer of information starting from demand, to be transferred through the value chain, with the purpose to increase uptake of recyclates in plastic products.

This standards series is an important building block of the integrated knowledge and standards framework that supports all companies to produce feedstock for recyclates from plastic waste (collecting and sorting), to produce recyclates (recycling) and to use recyclates in new products.

Rationale for the Demand Driven Standards series

To achieve the transition to a circular economy, a collaborative effort across the entire plastics value chain is essential. The value cycle, comprising various stakeholders, has to work together closely during both the product development and end-of-life stages, as well as in reverse logistics. Seven key requirements have been identified to enhance the use of recyclates effectively:

- Transform the value chain into a value cycle; [prEN 18064-1:2024](https://standards.iteh.ai/catalog/standards/sist/a6667320-571c-42e3-a84c-36a9f198c295/osist-pren-18064-1-2024)
- Begin product development with the application and product in mind;
- Design for functionality and future use;
- Avoid using an 'overqualified' recycle mix;
- Sort waste based on recycle quality;
- Align the technical and economic lifespan of the product;
- Design for repair or refurbishment of the product.

Currently, recyclates account for just 10 % of all plastics used in EU products. Bridging the gap between this level and the 2030 and 2050 targets is a substantial challenge. While packaging regulations exist, there is a lack of stringent legislation to enforce the use of recyclates in new products. In 2021, only 9,9 %

<sup>1</sup> M/584 COMMISSION IMPLEMENTING DECISION of 1.8.2022 on a standardisation request to the European Committee for Standardisation and the European Committee for Electrotechnical Standardisation as regards plastics recycling and recycled plastics in support of the European Strategy for Plastics in a Circular Economy