



# SLOVENSKI STANDARD SIST EN ISO 20200:2023

01-november-2023

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## Polimerni materiali - Ugotavljanje razpada polimernih materialov pri kompostiranju v laboratorijskem merilu (ISO 20200:2023)

Plastics - Determination of the degree of disintegration of plastic materials under composting conditions in a laboratory-scale test (ISO 20200:2023)

Kunststoffe - Bestimmung des Zersetzungsgrades von Kunststoffmaterialien unter nachgebildeten Kompostierungsbedingungen mittels einer Prüfung im Labormaßstab (ISO 20200:2023)

Plastiques - Détermination du degré de désintégration de matériaux plastiques dans des conditions de compostage lors d'un essai de laboratoire (ISO 20200:2023)

**Ta slovenski standard je istoveten z: EN ISO 20200:2023**

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### **ICS:**

83.080.01	Polimerni materiali na splošno	Plastics in general
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**en,fr,de**



EUROPEAN STANDARD

EN ISO 20200

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2023

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English Version

## Plastics - Determination of the degree of disintegration of plastic materials under composting conditions in a laboratory-scale test (ISO 20200:2023)

Plastiques - Détermination du degré de désintégration de matériaux plastiques dans des conditions de compostage lors d'un essai de laboratoire (ISO 20200:2023)

Kunststoffe - Bestimmung des Zersetzungsgrades von Kunststoffmaterialien unter nachgebildeten Kompostierungsbedingungen mittels einer Prüfung im Labormaßstab (ISO 20200:2023)

This European Standard was approved by CEN on 18 April 2023.

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## European foreword

This document (EN ISO 20200:2023) has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with 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of an identical text or by endorsement, at the latest by February 2024, and conflicting national standards shall be withdrawn at the latest by February 2024.

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### Endorsement notice

The text of ISO 20200 has been approved by CEN as EN ISO 20200:2023 without any modification.



INTERNATIONAL  
STANDARD

ISO  
20200

Third edition  
2023-08

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**Plastics — Determination of the  
degree of disintegration of plastic  
materials under composting  
conditions in a laboratory-scale test**

*Plastiques — Détermination du degré de désintégration de matériaux  
plastiques dans des conditions de compostage lors d'un essai de  
laboratoire*

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## ISO 20200:2023(E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 14, *Environmental aspects*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 249, *Plastics*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 20200:2015), which has been technically revised.

The main changes are as follows:

- the [Clause 3](#) “Terms and definitions” has been updated;
- a new incubation mode (type 2) has been added, based on two stages (see [Clause 4](#) and [7.3](#));
- the dimensions of the samples has been modified (see [7.1](#)).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

The test method described in this document determines the degree of disintegration of plastic materials when exposed to a composting environment. The method does not require special bioreactors, and is scaled for use in any general-purpose laboratory. It requires the use of a standard and homogeneous synthetic solid waste. The synthetic waste components are dry, clean, safe products, which can be stored in the laboratory without any odour or health problems. The synthetic waste is of constant composition and devoid of any undesired plastic material which could be erroneously identified as test material at the end of testing, altering the final evaluation. The bioreactors are small, as is the amount of synthetic waste to be composted (approximately 3 l). With the limited amount of test material, this method provides a simplified test procedure.

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