

STN	Plasty Uhlíková a environmentálna stopa plastov na báze biomasy Časť 2: Materiálová uhlíková stopa, množstvo (hmotnosť) CO₂ odstráneného zo vzduchu a zachyteného v molekule polyméru (ISO 22526-2: 2020)	STN EN ISO 22526-2 64 8030
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Plastics - Carbon and environmental footprint of biobased plastics - Part 2: Material carbon footprint, amount (mass) of CO₂ removed from the air and incorporated into polymer molecule (ISO 22526-2:2020)

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. 01/22

Obsahuje: EN ISO 22526-2:2021, ISO 22526-2:2020

134252

EUROPEAN STANDARD

EN ISO 22526-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2021

ICS 13.020.40; 83.080.01

English Version

Plastics - Carbon and environmental footprint of biobased plastics - Part 2: Material carbon footprint, amount (mass) of CO₂ removed from the air and incorporated into polymer molecule (ISO 22526-2:2020)

Plastiques - Empreinte carbone et environnementale des plastiques biosourcés - Partie 2: Empreinte carbone des matériaux, quantité (masse) de CO₂ captée dans l'air et incorporée dans les molécules de polymères (ISO 22526-2:2020)

Kunststoffe - Kohlenstoff- und Umweltbilanz von biobasierten Kunststoffen - Teil 2: Kohlenstoffbilanz des Materials, Menge (Masse) des aus der Luft entfernten und in das Polymermolekül integrierten CO₂ (ISO 22526 2:2020)

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EN ISO 22526-2:2021 (E)

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European foreword

The text of ISO 22526-2:2020 has been prepared by Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 22526-2:2021 by Technical Committee CEN/TC 249 "Plastics" the secretariat of which is held by NBN.

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**INTERNATIONAL
STANDARD****ISO
22526-2**First edition
2020-03

**Plastics — Carbon and environmental
footprint of biobased plastics —**

Part 2:

**Material carbon footprint, amount
(mass) of CO₂ removed from the
air and incorporated into polymer
molecule***Plastiques — Empreinte carbone et environnementale des plastiques
biosourcés —**Partie 2: Empreinte carbone des matériaux, quantité (masse) de CO₂
captée dans l'air et incorporée dans les molécules de polymères*Reference number
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Published in Switzerland

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ISO 22526-2:2020(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 documents 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).

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This document was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 14, *Environmental aspects*.

A list of all parts in the ISO 22526 series can be found on the ISO website.

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Introduction

Increased use of biomass resources for manufacturing plastic products can be effective in reducing global warming and the depletion of fossil resources.

Current plastic products are composed of biobased synthetic polymers, fossil-based synthetic polymers, natural polymers and additives that can include biobased materials.

Biobased plastics refer to plastics that contain materials wholly or partly of biogenic origin.

Plastics — Carbon and environmental footprint of biobased plastics —

Part 2:

Material carbon footprint, amount (mass) of CO₂ removed from the air and incorporated into polymer molecule

1 Scope

This document defines the material carbon footprint as the amount (mass) of CO₂ removed from the air and incorporated into plastic, and specifies a determination method to quantify it.

This document is applicable to plastic products, plastic materials and polymer resins that are partly or wholly based on biobased constituents.

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.

ISO 472, *Plastics — Vocabulary*

ISO 16620-1, *Plastics — Biobased content — Part 1: General principles*

ISO 16620-2:2019, *Plastics — Biobased content — Part 2: Determination of biobased carbon content*

ISO 16620-3:2015, *Plastics — Biobased content — Part 3: Determination of biobased synthetic polymer content*

ISO 16620-4, *Plastics — Biobased content — Part 4: Determination of biobased mass content*

ISO 16620-5, *Plastics — Biobased content — Part 5: Declaration of biobased carbon content, biobased synthetic polymer content and biobased mass content*

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