# INTERNATIONAL STANDARD

ISO 22526-3

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# Plastics — Carbon and environmental footprint of biobased plastics —

Part 3:

Process carbon footprint, requirements and guidelines for quantification

Plastiques — Empreinte carbone et environnementale des plastiques biosourcés —

Partie 3: Empreinte carbone des processus, exigences et lignes directrices pour la quantification





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Contents  Foreword  Introduction		Page
		iv
		<b>v</b>
1	Scope	1
2	Normative references	1
3	Terms, definitions and abbreviated terms 3.1 Terms and definitions 3.2 Abbreviated terms	
4	Application	2
5	Principles 5.1 General 5.2 Life cycle perspective, cradle to gate stage 5.3 Relative approach and functional unit 5.4 Iterative approach 5.5 Priority of approach 5.6 Relevance 5.7 Completeness 5.8 Consistency 5.9 Coherence 5.10 Accuracy 5.11 Transparency 5.12 Avoidance of double-counting	3 3 3 3 3 3 3 4 4 4
6	Methodology for CFP quantification 6.1 General 6.2 Use of CFP-PCR 6.3 Goal and scope of the P-CFP quantification 6.4 Life cycle inventory analysis for the P-CFP 6.5 Impact assessment 6.6 Interpretation phase	
7	CFP study report 7.1 General 7.2 GHG values in the P-CFP study report 7.3 Required information for the CFP study report 7.4 Optional information for the CFP study report	8 8
8	Critical review	
Rih	nliography	10

### **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 <a href="www.iso.org/directives">www.iso.org/directives</a>).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see <a href="https://www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

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.

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 <a href="https://www.iso.org/members.html">www.iso.org/members.html</a>.

# Introduction

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

and and as refer to,

Commonwell and 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.

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# Plastics — Carbon and environmental footprint of biobased plastics —

# Part 3:

# Process carbon footprint, requirements and guidelines for quantification

## 1 Scope

This document specifies requirements and guidelines for the quantification and reporting of the process carbon footprint of biobased plastics (see ISO 22526-1), being a partial carbon footprint of a bioplastic product, based on ISO 14067 and consistent with International Standards on life cycle assessment (ISO 14040 and ISO 14044).

This document is applicable to process carbon footprint studies (P-CFP) of plastic materials, being a partial carbon footprint of a product, whether or not the results are intended to be publicly available.

Requirements and guidelines for the quantification of a partial carbon footprint of a product (partial CFP) are provided in this document. The process carbon footprint study is carried out according to ISO 14067 as a partial carbon footprint, using the specific conditions and requirements specified in this document.

Where the results of a P-CFP study are reported according to this document, procedures are provided to support transparency and credibility, and also to allow for informed choices.

Offsetting is outside of the scope of this document.

### 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/TS 14027, Environmental labels and declarations — Development of product category rules

ISO/TS 14071, Environmental management — Life cycle assessment — Critical review processes and reviewer competencies: Additional requirements and guidelines to ISO 14044:2006

ISO 14044, Environmental management — Life cycle assessment — Requirements and guidelines

ISO 14050, Environmental management — Vocabulary

ISO 14067:2018, Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification

### 3 Terms, definitions and abbreviated terms

### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 14050, ISO 14067 and the following apply.