



# International standards for circular production and design

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# A quick introduction to ISO & international standards

**We're ISO, the International Organization for Standardization. We develop and publish international standards.**

- **Not-for-profit organization**
- **24,700+ international standards**
- **10,000+ technical experts working in 300+ committees**
- **168 countries**



# International standards:

- are widely used by **public & private sectors**
- are used in **conformity assessment** to ensure compliance and quality, including verification of sustainability claims
- ensure **harmonization and consistency** across borders
- supports **interoperability** between systems, components and devices
- do not create unnecessary barriers to trade, ensuring that States comply with their **WTO obligations**.
- can and have been referenced in **national regulation, National Action Plans**, and existing **MEAs**

# How standards address plastic pollution

# Existing standards to address plastic pollution



- ISO conducted research into standards relevant for reducing plastic pollution
- 60+ relevant ISO standards identified
- Scan the QR code to access the free publication:



[iso.org/plasticpollution](https://iso.org/plasticpollution)

# What plastic lifecycle stages do ISO standards cover?



Sized by number of standards covering the topic



# ISO standards under development

- Eco-design
  - Principle, requirement and guideline for posting and delivery packaging
- Circular Economy
  - Terminology, Principles and Guidance for Implementation
  - Measuring and assessing circularity
  - Product circularity data sheet
- Plastics
  - Disintegration field test of plastics under water environmental conditions



# Getting involved

- Commitment to ensuring **everyone's voice** is heard
- Bring new **market needs** for future standards work
- Participation via **national ISO member** or as a **Liaison organization**
- Examples of **relevant committees**:
  - TC 61/SC 14 Plastics – Environmental aspects
  - TC 323 Circular economy
  - TC 122/SC 4 Packaging and the environment
  - TC 297 Waste collection and transportation management
  - TC 45 Rubber and rubber products
  - TC 38/WG 34 Microplastic from textile sources
  - TC 94 Personal safety – Personal protective equipment *etc.*

# Final messages

1. International standards support **effective action** and ensure **harmonization and consistency across borders**
2. Cooperation and **collaboration** with standards setting bodies will support **rapid and widespread policy implementation**
3. Standards development is an open and transparent process – **we welcome your participation!**

# Further information:

[www.iso.org/plasticpollution](http://www.iso.org/plasticpollution)

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# Thank you.

Making lives *easier, safer* and *better*.

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[iso.org](https://www.iso.org)

# Examples of ISO Standards:

Designing and producing  
plastic products for  
circularity

# Vocabulary & definitions – example



## ***Ecodesign –***

*systematic approach that considers environmental aspects in design and development with the aim to reduce adverse environmental impacts throughout the life cycle of a product.*

Source: [ISO 14006:2020 - Environmental management systems — Guidelines for incorporating ecodesign](#)

# More on ISO Terms & Definitions



- This publication highlights key areas in which ISO standards provide useful terminology applicable to the INC process
- It includes links to the relevant standards
- Scan the QR code to access the free publication:



# Lifecycle approach in designing products

- **Conscious and sustainable use of biobased materials**  
ISO 22526-1:2020 - Plastics — Carbon and environmental footprint of biobased plastics — Part 1: General principles (series)
- **Design for recycling**  
ISO 17088:2021 - Plastics — Organic recycling — Specifications for compostable plastics
- **Designing for easy sorting and waste management**  
ISO 11469:2016 - Plastics — Generic identification and marking of plastics products
- **Ecotoxicity testing at the design stage**  
ISO 5430:2023 - Plastics — Ecotoxicity testing scheme for soluble decomposition intermediates from biodegradable plastic materials and products used in the marine environment — Test methods and requirements