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
What plastic lifecycle stages do ISO standards cover?

- **End-of-life assessment**: 24
- **Recycling and composting**: 13
- **Cross-cutting standards, circularity**: 11
- **Labeling and transparency**: 15
- **Feedstock, design**: 4
- **Waste management**: 3
- **Use, reuse**: 2
- **General frameworks**: 4
- **Disposal**: 2
- **Repair, refurbish**: 1

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

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Thank you.

Making lives easier, safer and better.

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Examples of ISO Standards:

Designing and producing plastic products for circularity
**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](https://www.iso.org/standard/80362.html)
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