



# PLASTICS RECYCLING



## - International level -



### ISO/TC 61/SC 14 – Plastics – Environmental aspects

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| Scope                 | All standardization activities in the field of plastics relating to environmental and sustainability aspects. The focus is on, but not limited to biobased plastics, biodegradability, environmental footprint incl. carbon footprint, resource efficiency incl. circular economy, characterization of plastics leaked into the environment incl. microplastics, waste management incl. organic, mechanical and chemical recycling. |    |
| Committee information | Published standards                                                                                                                                                                                                                                                                                                                                                                                                                 | 44 |
|                       | Standards under development                                                                                                                                                                                                                                                                                                                                                                                                         | 15 |

### Major “ISO/TC 61/SC 14” standards

|                             |                                   |                                                                                                                                                             |
|-----------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Published standards         | <a href="#">ISO 5677:2023</a>     | Testing and characterization of mechanically recycled polypropylene (PP) and polyethylene (PE) for intended use in different plastics processing techniques |
|                             | <a href="#">ISO 15270:2008</a>    | Plastics — Guidelines for the recovery and recycling of plastics waste                                                                                      |
|                             | <a href="#">ISO 15270-5:2025</a>  | Plastics — Guidelines for the recovery and recycling of plastics waste — Part 5: Organic/biological recycling                                               |
|                             | <a href="#">ISO 17088:2021</a>    | Plastics — Organic recycling — Specifications for compostable plastics                                                                                      |
|                             | <a href="#">ISO/TR 23891:2020</a> | Plastics — Recycling and recovery — Necessity of standards                                                                                                  |
| Standards under development | <a href="#">ISO/DIS 15270-1</a>   | Plastics — Guidelines for the recovery and recycling of plastics waste — Part 1: General principles                                                         |
|                             | <a href="#">ISO/CD 15270-2</a>    | Plastics — Guidelines for the recovery and recycling of plastics waste — Part 2: Mechanical recycling                                                       |
|                             | <a href="#">ISO/DIS 15270-3</a>   | Plastics — Guidelines for the recovery and recycling of plastics waste — Part 3: Physical recycling                                                         |
|                             | <a href="#">ISO/DIS 15270-4</a>   | Plastics — Guidelines for the recovery and recycling of plastics waste — Part 4: Chemical recycling                                                         |

### ISO/TC 122/SC 4 – Packaging and the environment

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| Scope                 | ISO/TC 122/SC 4 "Packaging and Environment" aims to develop ISO standards to harmonize environmental aspects on packaging and packaging systems throughout the life cycle, including but not limited to: terminology and general requirements, optimization and source reduction, reuse, recycling, other recovery, recycled content, as well as identification and design. |    |
| Committee information | National delegates                                                                                                                                                                                                                                                                                                                                                          | 2  |
|                       | Published standards                                                                                                                                                                                                                                                                                                                                                         | 11 |
|                       | Standards under development                                                                                                                                                                                                                                                                                                                                                 | 1  |

### Major “ISO/TC 122/SC 4” standards

|                     |                                   |                                                                                              |
|---------------------|-----------------------------------|----------------------------------------------------------------------------------------------|
| Published standards | <a href="#">ISO/TR 16218:2013</a> | Packaging and the environment — Processes for chemical recovery                              |
|                     | <a href="#">ISO/TR 17098:2013</a> | Packaging material recycling — Report on substances and materials which may impede recycling |
|                     | <a href="#">ISO 18604:2013</a>    | Packaging and the environment — Material recycling                                           |
|                     | <a href="#">ISO 18606:2013</a>    | Packaging and the environment — Organic recycling                                            |

## - European level -



### CEN/TC 249 – Plastics

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |
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| <b>Scope</b>                 | Standardization of 1) terminology, 2) test methods, 3) specifications, classifications and designation systems, 4) environmental aspects, 5) joining systems and techniques, of plastics, plastic-based materials, semi-finished products and products (thermoplastics, thermosets, degradable plastics, bio-based polymers, thermoplastic elastomers, composites, reinforcement products for plastics, recyclates).<br>Rubber is excluded. Specific end-product related items are also excluded if they are covered by the scope of an existing product TC. |     |
| <b>Committee information</b> | Published standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 520 |
|                              | Standards under development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 53  |

### Major “CEN/TC 249” standards

|                     |                              |                                                                                                                                  |
|---------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Published standards | <b>CEN/TR 18160:2025</b>     | Plastics recycling — Classification of plastic recyclates as post-consumer recyclates (PCR) and post-industrial recyclates (PIR) |
|                     | <b>CEN/TS 16010:2020</b>     | Plastics — Recycled plastics — Sampling procedures for testing plastics waste and recyclates                                     |
|                     | <b>CEN/TS 16011:2013</b>     | Plastics — Recycled plastics — Sample preparation                                                                                |
|                     | <b>CEN/TS 17627:2021</b>     | Plastics — Recycled plastics — Determination of solid contaminants content                                                       |
|                     | <b>ILNAS-EN 15343:2007</b>   | Plastics — Recycled Plastics — Plastics recycling traceability and assessment of conformity and recycled content                 |
|                     | <b>ILNAS-EN 15342:2025</b>   | Plastics — Recycled plastics — Characterization of polystyrene (PS) recyclates                                                   |
|                     | <b>ILNAS-EN 15344:2025</b>   | Plastics — Recycled plastics — Characterization of Polyethylene (PE) recyclates                                                  |
|                     | <b>ILNAS-EN 15345:2025</b>   | Plastics — Recycled plastics — Characterization of polypropylene (PP) recyclates                                                 |
|                     | <b>ILNAS-EN 15346:2024</b>   | Plastics — Recycled plastics — Characterization of poly(vinyl chloride) (PVC) recyclates                                         |
|                     | <b>ILNAS-EN 15348:2024</b>   | Plastics — Recycled plastics — Characterization of poly(ethylene terephthalate) (PET) recyclates                                 |
|                     | <b>ILNAS-EN 18067:2025</b>   | Plastics — Recycled plastics — Characterization of Acrylonitrile-Butadiene-Styrene (ABS) recyclates                              |
|                     | <b>ILNAS-EN 18064 series</b> | Plastics — Quality recommendations and basis for specifications for application of plastic recyclates in products                |
|                     | <b>ILNAS-EN 15347 series</b> | Plastics — Sorted plastics wastes (Characterisation and quality grades of PE, PP, PET, PVC, and PS wastes)                       |
|                     | <b>ILNAS-EN 17410:2021</b>   | Plastics — Controlled loop recycling of PVC-U profiles from windows and doors                                                    |
|                     | <b>ILNAS-EN 18065:2025</b>   | Plastics — Recycled plastics — Classification of recycled plastics based on Data Quality Levels for use and (digital) trading    |

### CEN/TC 261 – Packaging

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| <b>Scope</b>                 | CEN/TC 261 is responsible for the elaboration of standards dealing with terminology, dimensions, capacities, marking, test methods, performance requirements and environmental aspects in the field of packaging and unit loads. The field covers primary, secondary and transport packaging and unit loads, whatever the materials, shapes, contents or distribution system used. |     |
| <b>Committee information</b> | National delegates                                                                                                                                                                                                                                                                                                                                                                 | 8   |
|                              | Published standards                                                                                                                                                                                                                                                                                                                                                                | 151 |
|                              | Standards under development                                                                                                                                                                                                                                                                                                                                                        | 43  |

### Major “CEN/TC 261” standards

|                             |                                |                                                                                                                                                           |
|-----------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Published standards         | <b>ILNAS-EN 13437:2003</b>     | Packaging and material recycling — Criteria for recycling methods - Description of recycling processes and flow chart                                     |
|                             | <b>ILNAS-EN 13440:2003</b>     | Packaging — Rate of recycling — Definition and method of calculation                                                                                      |
|                             | <b>ILNAS-EN 13430:2004</b>     | Packaging — Requirements for packaging recoverable by material recycling                                                                                  |
|                             | <b>CEN/TR 13688:2008</b>       | Packaging — Material recycling — Report on requirements for substances and materials to prevent a sustained impediment to recycling                       |
|                             | <b>ILNAS-EN 18120 series</b>   | Packaging — Design for recycling of plastic packaging                                                                                                     |
|                             | <b>ILNAS-EN ISO 16103:2005</b> | Packaging — Transport packages for dangerous goods — Recycled plastics material                                                                           |
| Standards under development | <b>FprCEN/TS 18382</b>         | Packaging — Design for recycling for plastic packaging products — Guideline for design for recycling of rigid packaging made of biodegradable plastics    |
|                             | <b>FprCEN/TS 18383</b>         | Packaging — Design for recycling for plastic packaging products — Guideline for design for recycling of flexible packaging made of biodegradable plastics |
|                             | <b>FprCEN/TS 18395</b>         | Packaging — Design for recycling for plastic packaging products — Recyclability evaluation process for rigid packaging made of biodegradable plastics     |
|                             | <b>FprCEN/TS 18396</b>         | Packaging — Design for recycling for plastic packaging products — Recyclability evaluation process for flexible packaging made of biodegradable plastics  |