



ISCC PLUS ADD-ON – EN 15343

Version 1.0

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1 Introduction

In the recent years, there has been an increased level of global awareness and regulatory pressure with a view to reducing the environmental impact of plastic production and consumption. Governments and industries are increasingly adopting measures to promote the use of recycled plastics and reduce dependency on virgin fossil-based materials. In this context, demonstrating the recycled content in plastic products has become important, especially where financial instruments such as taxes on virgin plastics are mandated.

*Promote
recycled plastics*

The European regulation EN 15343:2008 (*Plastics recycling traceability and assessment of conformity and recycled content*) sets procedures for ensuring traceability and verification of recycled content in plastic products. In accordance with this regulation, the ISCC PLUS Add-on EN 15343 provides an option for organisations seeking to align their recycling operations and product claims with the regulation. Therefore, this document intends to describe the requirements additional to the ISCC PLUS system needed to demonstrate compliance with EN 15343.

*Additional
requirements*

2 Scope and Normative References

The requirements described in this document specify the identification, traceability, and verification of recycled plastic materials, as well as their certification process under ISCC PLUS with the EN 15343 Add-on. It applies to all entities within the plastics supply chain who wish to demonstrate compliance with the EN 15343 through the ISCC System.

EN 15343

Further, this document refers to the following other European standards:

- EN 15342
- EN 15344
- EN 15345
- EN 15346
- EN 15347
- EN 15348

3 Additional requirements for Recycling according to EN 15343

In addition to complying with the ISCC PLUS requirements, recycling under the EN 15343 Add-on requires the following supplementary conditions set out in EN 15343:

- > Traceability aligns with the existing ISCC approach for mixed plastic waste: for household waste (post-consumer), sorting centres are designated as the Points of Origin; for (post-) industrial waste, the

Traceability

Processing Unit (specifically the plastic producer or converter where the waste originates) is considered the Point of Origin.

- > All certified operators must keep records of incoming and sorted products. Each batch must be identified and its characteristics specified in accordance with the relevant standards (EN 15342, 15344, 15345, 15346, 15348), as shown in Table 1.

Records

Origin of the material	Material type/form
	Product type
	Type of waste e.g. pre-user, post user, demolition waste
	Where it came from (supplier identification)
	Date
	History of waste (e.g. known contact with hazardous substances)
Handling of the material	Collection (transporter/type of transport)
	Sorting
	Batch size, identification and marking
	Pre treatment (e.g. washing, grinding)
	Storage (e.g. outside)
Test carried out before processing	EN 15347 Plastics recycle characterisation of waste plastics
	Or as appropriate for the end use application
Process parameters	Details of the process used as appropriate
Tests carried out after processing	EN 15342
	EN 15344
	EN 15345
	EN 15346
	EN 15348
	Or any other standards as appropriate for the end user application
Intended (suitable) application	Details of appropriate or inappropriate applications
Other optional information as agreed between buyer and seller.	
This list is not exhaustive.	

Table 1: Overview of required information additional for the ISCC PLUS system for sustainability documentation

To identify the recycled content of a product (percentage by weight of recycled material in a product), the following formula is used:

Recycled content formula

$$\text{Percentage of recycled content of the product} = \left(\frac{\text{mass of recycled materials in the product}}{\text{total mass of the product}} \right) \times 100$$

The collection and sorting scheme are properly designed to deliver recyclable plastic waste fractions fitting with available recycling technologies and the needs of identified market outlets, preferably at minimum costs. The input materials are controlled according to EN 15347.

*Recycling
process*

The recycling process produces material that meets the requirements for the intended applications. Process variables need to be recorded. For specific applications i.e. food applications, challenge tests demonstrate that the process is capable of delivering products with certain specified properties. Products delivered by the process require quality control testing.

*Intended
application*

All certified economic operators have records of the quality control carried out including incoming materials, processes, finished materials or products (a quality management system certified to EN ISO 9001 may suitable). Specification and standard deviation or range of values within and between batches of materials are agreed upon between supplier and purchaser (within the limitations of ISCC requirements). The statement of recycled content or documentary of the previous history of the material is always available, additional analytical methods are possible.

*Quality
assurance*