

RecyClass Unwrapped Towards the EU recycling targets with RecyClass

Moderated by Antonino Furfari I Managing Director I Plastics Recyclers Europe

09 December 2021



CPA Dedicated Product Teams

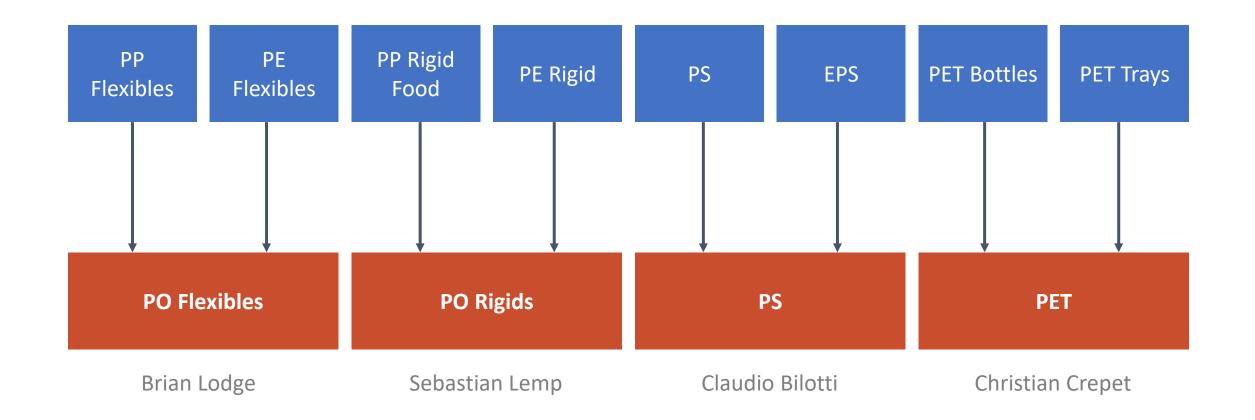
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Our task:

To propose guidelines to DGGROW that can be used as the basis of establishing standards by CEN.

- Design guidelines and Evaluation process
- Sorted waste quality standards
- Quality of recycled materials
- Quality standards for recycled content

Priority streams:

A Priority product designed to produce a recyclate suitable for recycled content in the same priority product

If the above is not reached, recyclate is suitable for recycled content in other priority products of the CPA

B

Design packaging not meeting stream A and B requirements to be separable

CPA DPT – PP Food Containers, Caps & Closures

NED

Major challenges:

Mechanically recycled PP is not suitable for direct food contact applications (EFSA)

Very little recycled PP material available from chemical recycling

PP not as widely collected in Europe as other target materials

Caps & Closures are used on a wide variety of containers

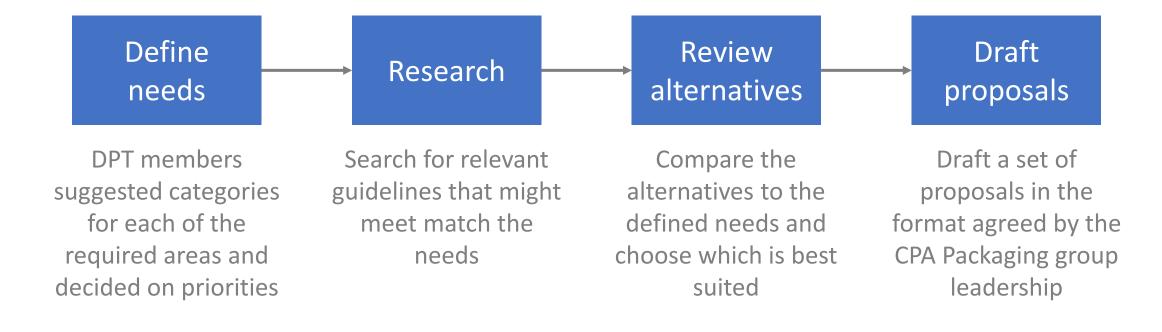
To enable the DPT to meet the needs of the CPA we agreed to change the remit

It was decided that recycling food packaging into non food packaging would be classified as being stream **A** as this is happening widely in the industry already and downgrading it to a **B** would be counter productive

As caps & closures are made of many different materials and can be used across many different packaging types it was agreed that each DTP would need to address them in their own group

Therefore the group changed to **PP Rigid Containers** and could also encompass many rigid PP packs that did not fall within the remit of any other DTP

CPA DPT – PP Rigid Containers



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Two documents were submitted to the CPA leadership in September:

- Packaging Recyclability evaluation process for plastic packaging Guidelines for PP Bottles and Containers
- Packaging Design for Recycling of plastic packaging Guideline for PP Bottles and Containers

These guidelines and evaluation processes were based on the RecyClass system and will now be put before the CEN committee as proposals for standardisation

As the work of the PP and PE groups reached the same conclusions it was agreed that these two DPTs should merge to reduce time and effort going forward

CPA DPT – PO Flexible Packaging

Major challenges:

MOININ

Infrastructure for collecting and recycling flexible packaging is not as well developed as that for rigid

Many flexible plastics are complex laminates, highly decorated or contain additives which make them more difficult to recycle

Differences in opinion on how to proceed have delayed decision making within the DTP

Considerable work has been done comparing the CEFLEX and RecyClass classifications for flexible materials by a working group (set up jointly by the two organisations) – this has identified several areas where the guidelines differ

As the two organisations viewpoint is different the DTP is working on a way to frame their proposal to take both approaches into account

This has delayed the publication of the design guidelines and evaluation protocols

Plastics recycling standardisation in Europe

RecyClass Unwrapped 9 December 2021

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Circular Plastics Alliance and Standardisation Request Ongoing in Europe, examples

Time overview

Scope

Making plastics more circular will reduce plastic pollution. This is a priority for the EU. Recycling more plastics is paramount. The Circular Plastics Alliance gathers public and private stakeholders in the plastics value chains to promote voluntary actions and commitments for more recycled plastics. The Circular Plastics Alliance wants to ensure that 10 million tonnes of recycled plastics are used to make products in Europe in 2025.





Standardisation in the commitment

Design for recycling

- Develop, update or revise design guidelines
- Contribute to update CEN and industry standards on recyclability

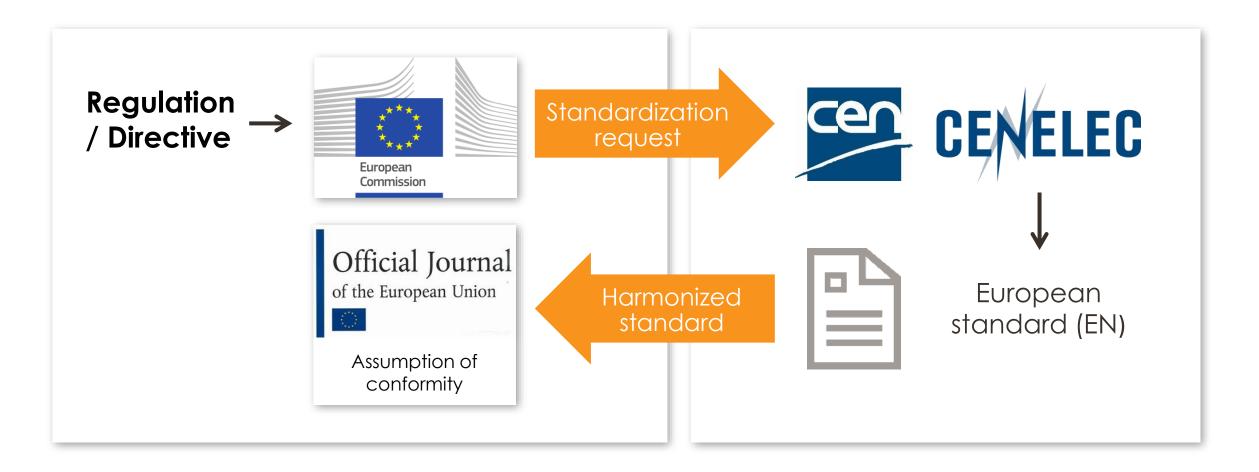
Collection & sorting

• Develop **standards** to assess the quality of sorted plastic waste

Recycled content

 Support the development or revision of standards and guidelines on the quality of plastics recycling and recycled plastics

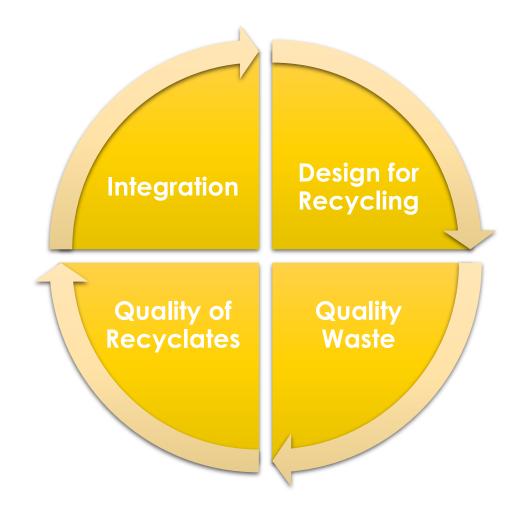
Standardization request linked to legislation



Standardization request <u>not</u> linked to legislation



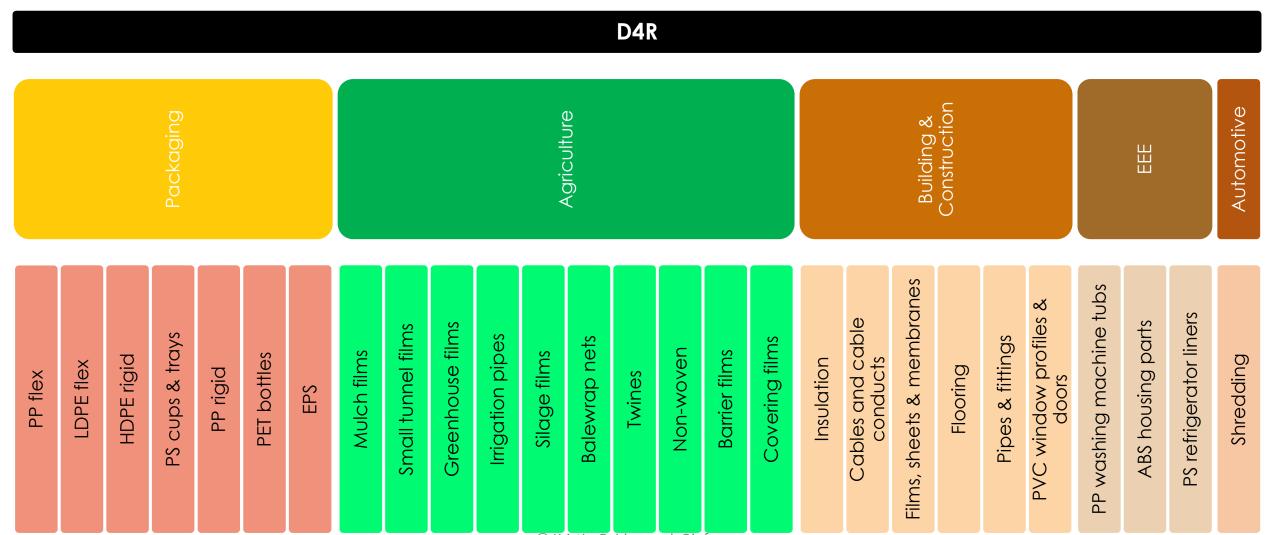
Scope of Standardisation Request



•Excluded:

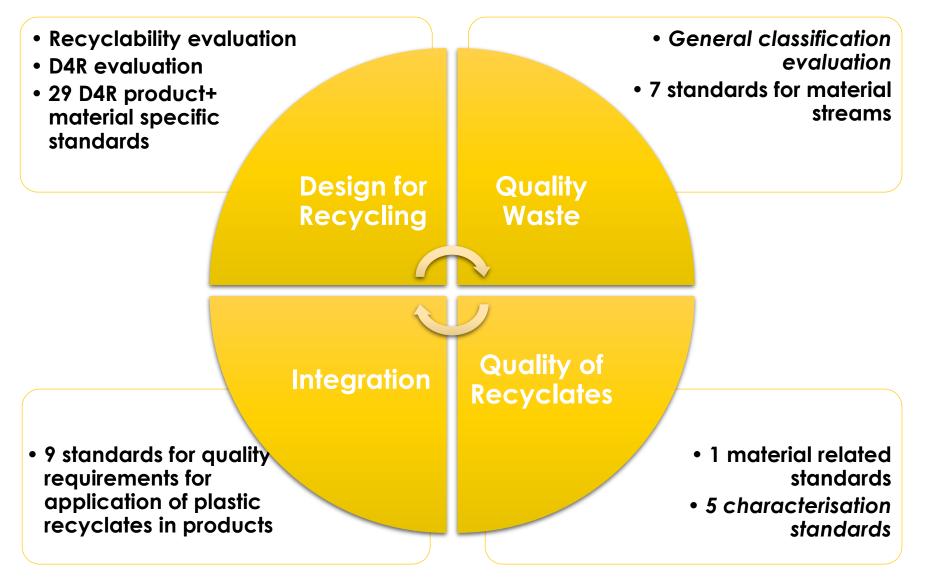
- •Recycled content calculation
- •Mass balance

Structure CPA preparations for SR

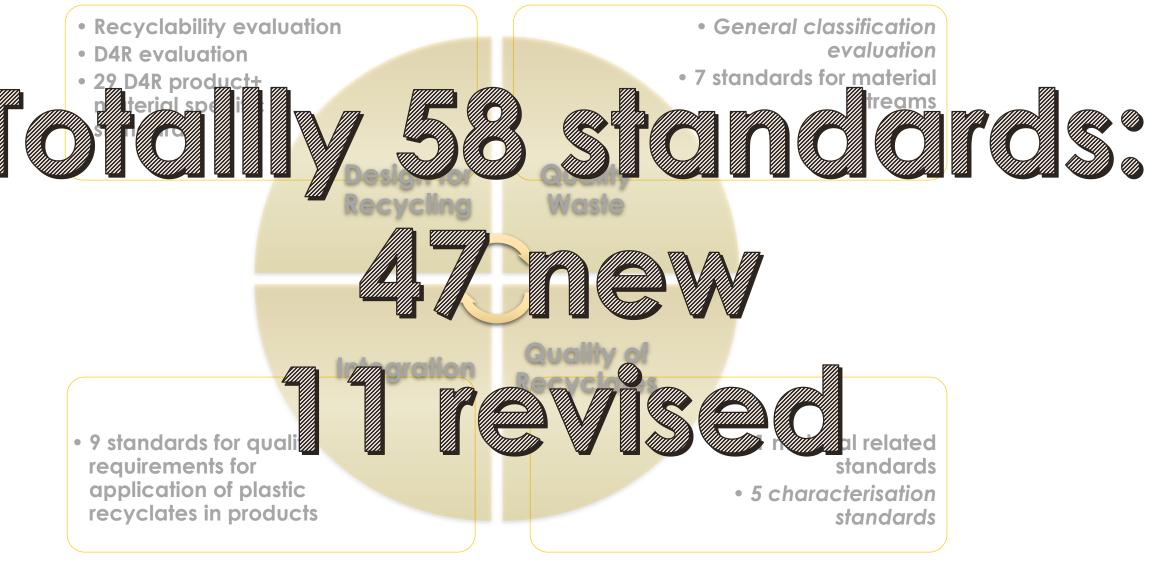


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Content Standardisation Request



Content Standardisation Request



Ongoing in Europa, examples

TC 249 Plastics

WG 11 Recycling

<u>Revisions</u>

- EN 1534x-serien:
 - rPVC
 - rPET
 - rPP
- Characterisation of sorted plastics waste
- Plastics recycling traceability and assessment of conformity and recycled content

<u>New</u>

- Plastics Quality requirements for application of plastic recyclates in products
- DIN SPEC 91446 Classification of recycled plastics by Data Quality Levels for use and (digital) trading

WG 24 Environmental aspects

• Plastics - Environmental Aspects - Vocabulary

TC 261 Packaging/ SC 4 Packaging and environment/WG 3 Material recovery

<u>Revisions</u>

 Report on requirements for substances and materials to prevent a sustained impediment to recycling

<u>New</u>

Quality grades for plastic packaging for recycling and measuring recycling

Ongoing international, examples

TC 61 Plastics/ SC 14 Environmental aspects WG 1 Terminology and classification

<u>Revisions</u>

ISO 15270 Guidelines for the recovery and recycling of plastics waste

<u>New</u>

• Analysis of relevant terms used in the sector and need for standardization

WG 5 Mechanical and chemical recycling

New

- Testing and characterization of mechanically recycled Polypropylene (PP) and Polyethylene (PE) for intended use in different plastics processing techniques
- Gasification
- Chemical recycling

TC 308 Chain of custody

- Mass balance
- Book & Claim

TC 323 Circular economy

• Product Circularity Data Sheet

Time line overview



Thank you

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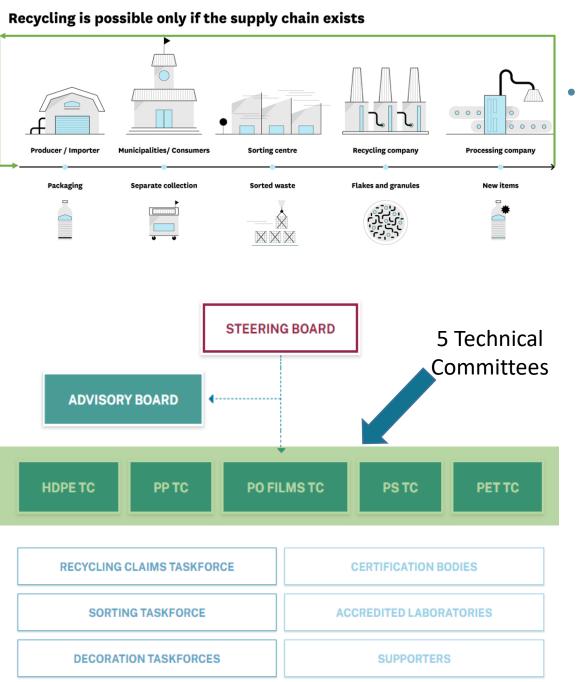
RecyClass

HOW RECYCLASS CAN SUPPORT ON THE CPA

FABRIZIO DI GREGORIO PLASTICS RECYCLERS ERUOPE -TECHNICAL DIRECTOR fabrizio.digregorio@plasticsrecyclers.eu



RecyClass Assesses, improves and endorses the recyclability & recycled content in plastic packaging and plastic products



RecyClass is a value chain
initiative supported by the
European plastics recyclers

- Focus: Design for Recycling
- European harmonization
- Scientific approach
- Fact-based DfR guidelines
- Standard testing protocols
- Available for all

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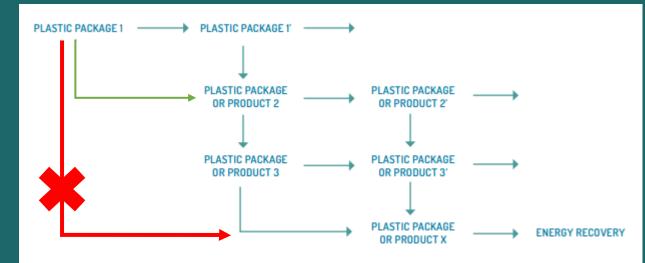
RECYCLABILITY

RECYCLED CONTENT \bigcirc S

RECYCLABILITY

WHAT DOES CIRCULARITY MEANS?

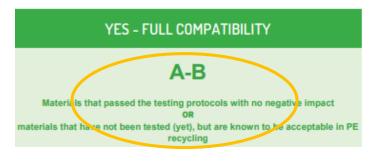
'A circular economy is one that is restorative and regenerative by design and **aims to keep products, components and materials at their highest utility and value at all times**' (*MacArthur*, 2015)



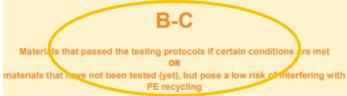
In some cases, functionality requirements make it difficult to design packaging for closed-loop recycling systems.

Designs enabling **expanded multi-step cascaded recycling remain favourable**, for such situations;

RecyClass | FACT-BASED DFR GUIDELINES









PET bottles (clear/light blue and colored)



PE films (colored and natural)

Clear PET trays



PP films (colored and natural)

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HDPF containers & tubes (colored and transparent)



PS colored containers

NO - LOW COMPATIBILITY D-E-F Materials that failed the testing protocols materials that have not been tested (yet), but pose a high risk of interfering with PE recycling



PP containers & tubes (colored and transparent)



Crates and Pallets



EPS fish boxes



RecyClass | STANDARD TESTING PROTOCOLS

Packaging solutions and/or innovations covered by the Protocols include among others: resins, barrier materials, mineral fillers/additives, closure systems, liners, seals and valves, labels and sleeves, adhesives, inks.



See all the protocols online

Recyclability Evaluation Protocols

- Recyclability Protocol for PE films
- Recyclability Protocol for HDPE containers
- Recyclability Protocol for PP containers
- Recyclability Protocol for PP films
- Recyclability Protocol for PET bottles (EPBP)
- Recyclability Protocol for PET trays (Petcore Europe/EPTP)
- Recyclability Protocol for PS containers (to be released in December)

Sorting Evaluation Protocol

• Sorting Protocol for plastic packaging

Quick Test Procedures

- Washing QT Procedure for film labels and adhesives
- Washing QT Procedure for paper labels and adhesives
- Bleeding Inks QT Procedures (to be released in December)

RecyClass | How DOES RECYCLASS WORK?

RECYCLABILITY EVALUATION PROTOCOLS

= ?

- Lab testing of innovative plastic packaging vs control material
- Comparison of properties
- Technology/Product Approval

DESIGN FOR RECYCLING GUIDELINES

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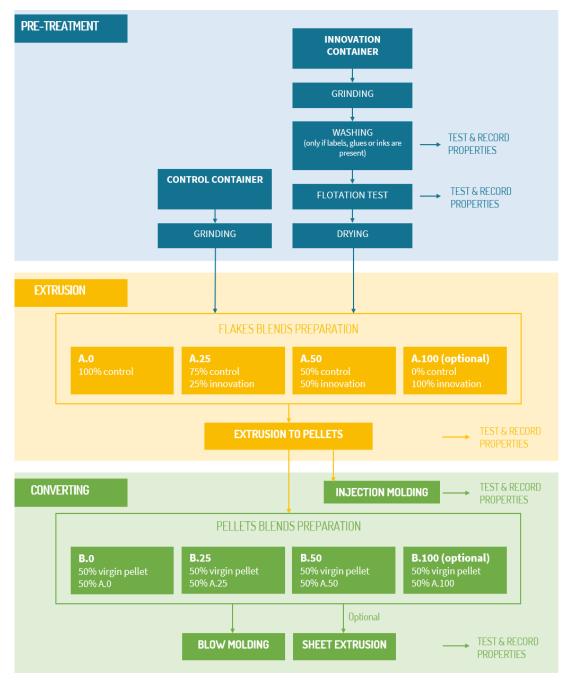
- Design guide & recommendations for plastic packaging
- Design for Recycling (DfR) Guidelines transposed in the tool
- Assessing **overall recyclability** of a finished package

RECYCLASS TOOL

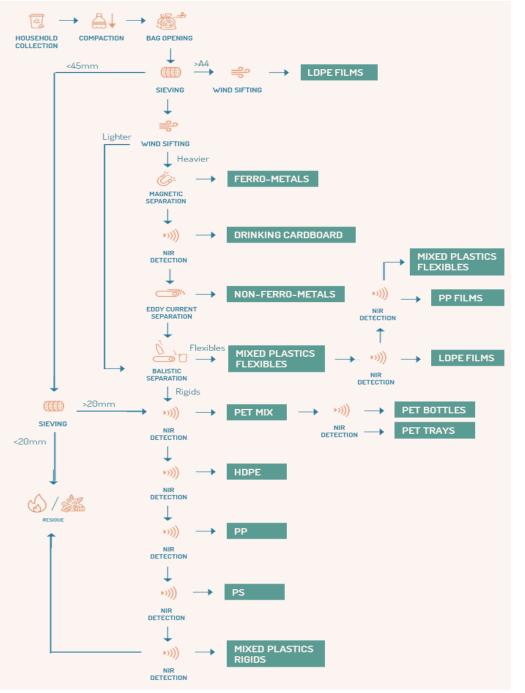


- Recyclability Self-Assessment
- RecyClass Team support
- Recyclability Certification

Recyclability Evaluation Protocols (6 labs accredited)



Sorting Evaluation Protocol (2 lines accredited)



RecyClass | FACT-BASED DFR GUIDELINES

RecyClass

PE TRANSPARENT FLEXIBLE FILMS for Household and Commercial Packaging

	YES - FULL COMPATIBILITY	CONDITIONAL - LIMITED COMPATIBILITY	NO - LOW COMPATIBILITY	coloured packaging		
CLASS RANKING*	A-B	B-C	D-E-F			
DESCRIPTION (Test Protocol)	Materials that passed the testing protocols with no negative impact OR materials that have not been tested (yet), but are known to be acceptable in PE recycling	Materials that passed the testing protocols if certain conditions are met OR materials that have not been tested (yet), but pose a low risk of interfering with PE recycling	Materials that failed the testing protocols OR materials that have not been tested (yet), but pose a high risk of interfering with PE recycling	Related with RecyClass evaluation testing protocols		
MAIN MATERIAL	PE-LD, PE-LLD; PE-HD	Multilayer PE/PP with PP ≤ 5%	Multilayer PE/PP with PP > 5%; Any other polymer (e.g. PET, PVC, etc.)			
MATERIAL COMPOSITION	A when PE content is > 95%; B when PE content is > 90%	C when PE content is > 70%	D when PE content is > 50%; E when PE content is > 30%; F when PE content is < 30%			
COLOURS	Unpigmented; transparent	Light colours; translucent colours	Dark colours; black; carbon black			
SIZE PRODUCT RESIDUES	> A4 or > 50 x 50 mm once compacted	< A4 format or between 20 x 20 and 50 x 50 mm once compacted (Sorting test)	< 20 x 20 mm			
(Easy to Empty index)	A if the index is < 5%; B if the index is < 10%	C if the index is < 15%	D if the index is < 20%; E < if the index is < 25%; F if the index is > 25%			
BARRIER	Barrier in the polymer matrix; SIOx and AlOx without additional coatings	<5% EVOH (in polyolefinic combination film); metallized layers without coatings; Ecolam High Plus; VO+ LLDPE; <15% PA 6/66 copolymer with melting temperature <192 °C and incorporating minimum 10% PE-g-MAH tie layers	> 5% EVOH (in polyolefinic combination film); Any other PA; barrier layer PVC, PVDC; any other barrier layer; foaming agents used as expanding chemical agents; aluminium	DfR guidelines are regularly updatd by the RecyClass Technical Committes on the base of new findings		
ADDITIVES	Additives that do not increase the density higher than 0,97 g/cm 3		Bio-/oxo-/photodegradable additives Additives that do increase the density higher than 0,97 g/cm ³ (CaCO ₃ , talc, glass fibers, etc.)			
CLOSURE SYSTEM	PE-LD, PE-LLD, PE-HD	pp	Metal, aluminium, PVC, PET, PETG, PS, PLA, non PO or foams with density < 1 $\rm g/cm^3$			
LINERS, SEALS AND VALVES	PE-LD, PE-LLD, PE-HD	PP, removable aluminium liddings	Metal, aluminium, PVC, PET, PETG, PS, PLA, foiled paper, non PO or foams with density < 1 g/cm ³			
LABELS	PE	PP, paper labels without fiberloss	Metallized labels, any other; paper labels with fibreloss			
ADHESIVES FOR LABELS	Water soluble or water-releasable at less than 60°C		Adhesives non-soluble in water or non-releasable in water at less than 60°C			
INKS	No inks	Non-toxic (according to EUPIA guidelines)	Inks that bleed; Toxic or hazardous inks.			
DIRECT PRINTING	Laser marked print; Printed production or expiry date	Printing covering < 50%**	Printing covering > 50% **			
OTHER ATTACHMENTS	PE-LD, PE-LLD, PE-HD	рр	Metal, aluminium, PVC, PET, PETG, PS, PLA, paper, foams with density < 1 g/cm 3			
RECYCLED CONTENT No change in the recyclability assessment. A separate 'Recycled Content Traceability Certification' based on a Chain of Custody approach is available with RecyClass						

Last update - June 2021

DfR guidelines are available for

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RecyClass | How TO CLAIM RECYCLABILITY ?

DESIGN FOR RECYCLING GUIDELINES

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RECYCLASS TOOL

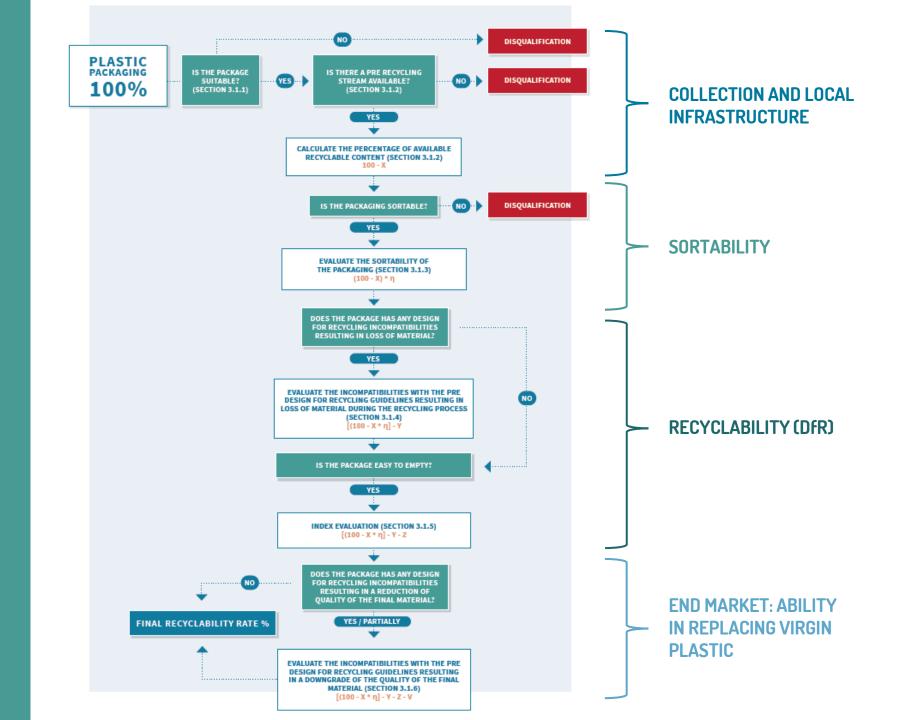


- Recyclability Self-Assessment
- RecyClass Team support

RECYCLABILITY CERTIFICATION



 Recyclability Assessment by recognized Certification Bodies



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RecyClass | EUROPEAN RECYCLABILITY | CERTIFICATION

DESIGN FOR RECYCLING ASSESSMENT



- Qualitative Assessment: ranking from A to F
- Valid for the EU market
- Based on the European plastic waste streams
- Packaging design, sorting behaviour, end-markets included

RECYCLABILITY RATE ASSESSMENT



- Quantitative Assessment: % of recyclable content, in addition to class ranking
- Country-specific
- Based on the local collection and availability of infrastructures
- Packaging design, sorting behaviour, end-markets included



Detailed information online

RecyClass | HARMONIZATION and **CERTIFICATION BODIES**

- HARMONIZED DESIGN FOR RECYCLING GUIDELINES •
- HARMONIZED RECYCLABILITY METHODOLOGY

SPAIN	AUSTRIA	GREECE, SERBIA	FRANCE
IN NOVATION LAB	The Polymer Explorers	RECOUP uk	PLASTSHIP Your plastic recycling network
REDILO	Suez Circpack* Doratis & Controlation		GERMANY
SWITZERLAND	EU 27+3	SWEDEN, NORWAY, FINLAND, DENMARI	К

RecyClass **RECYCLABILITY RATE CERTIFICATE** THIS CERTIFIES THAT PRODUCT NAME **BRAND NAME** LEGAL COMPANY NAME AND ADRESS The product and equivalent products listed in Annex I were assessed and certified according to RecyClass Recyclability Methodology (version 11) and Design for Recycling Guidelines (Feb. 2021), hereby obtaining the following recyclability rate and class: 90% (A) RECYCLABILITY ABCDEF The value represents the proportion of material in the packaging that is recoverable and valuable for the recycling stream. The certificate and its result are valid for: France, Germany, Spain and Ita Audit Report and Certificate Registration Code CERTIFIED BY NAME OF AUDITOR Title of auditor Date of issue of Certificate CERTIFICATION NAME Date of expiration of Certificati Certification advers *validity conditions and terms of use may be found in the Audit Scheme documents



RECYCLABILITY

Detailed list and contacts of certification online

RecyClass | USE OF CLAIMS

Guidance detailing when and how to use RecyClass claims and logos by certified companies and products.

RECYCLABILITY:

- Technology/Product Approval (mainly for innovative package)
- Letter of Compatibility (semi-finished package)
- Design-for-Recycling Certification
- Recyclability Rate Certification

RECYCLED CONTENT:

• Recycled Plastics Traceability Certification



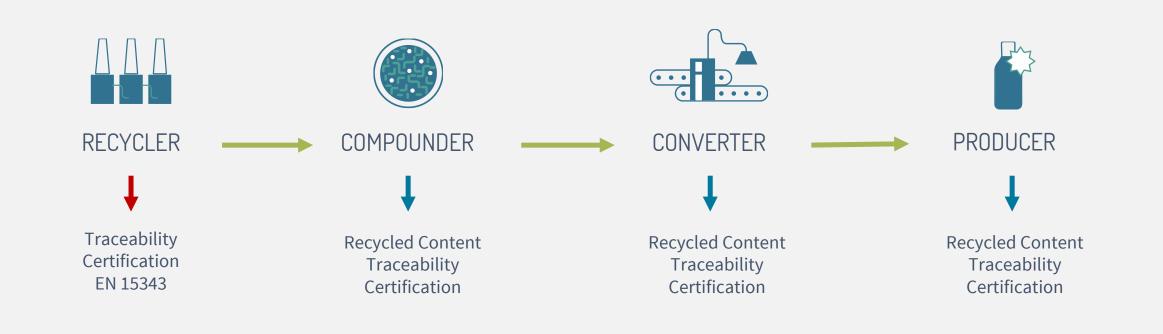
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RECYCLED CONTENT

Recyclass | RECYCLED CONTENT (AUDIT SCHEME)

Certification **recognises the use of recycled plastics in products** via an independent thirdparty audit.

Audit Scheme verifies the traceability of recycled material in different process steps throughout the whole chain of custody of the recycled material.



RecyClass | ORIGIN OF THE WASTE



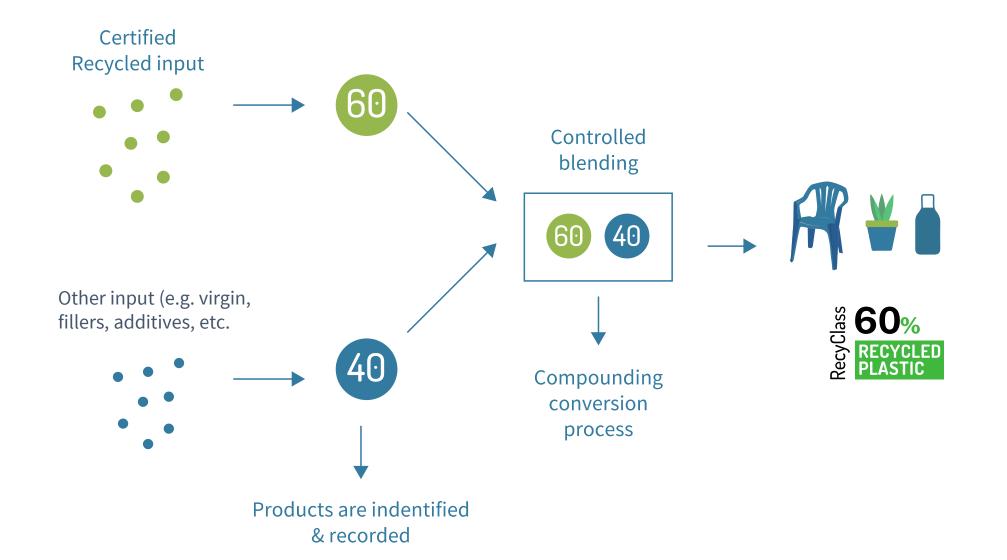


- <u>RecyClass recognises EuCertPlast Certifications to verify the origin of the</u> <u>waste.</u>
- Certification for **plastics recyclers** ensuring traceability of plastic waste from input bales to output recyclates; as well as quality process, recycled content and environmental performance.
- Central part of the audit is the traceability check, check of the origin of material and mass balance calculation and recycled content.
- Based on standard **EN 15343:2007** Plastics recycling traceability and assessment of conformity and recycled content.

RecyClass | CONTROLLED BLENDING CHAIN OF CUSTODY

- Certification follows a <u>controlled blending approch</u> as a chain of custody model as described in ISO/IEC 22095:2020, the certification relates to recycled plastics when mixed with other materials or substances resulting in a **known proportion of recycled** content of plastics in output products, focusing on the <u>physical presence</u> of the material or products.
- The organisation active in the chain of custody of the product or material must ensure that the physical input and outputs of recycled plastics assessed during the audit are identified, monitored and documented.





RecyClass | CERTIFICATE & LOGOS

RecyClass RECYCLED CONTENT

TRACEABILITY CERTIFICATE

ENTER COMPANY

COMPANY ADRESS

Has been assessed in accordance with the Audit Scheme 1.0 in line with EN 153432007 and has the required orocedures in place in order to ensure the traceability of recycled plastics incoroorated in products listed in the attached Annex.

Type of products:

Type of process or operation:

ES-C2012. Laito of validity		CERTIFICATION NAME Certification satiress
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LIST OF CERTIFIED PRODUCTS

Name of product/family	Reference	Recycled Content (pre-consumers)	Recycled Content (post-consumers)	
Name of product/family	Reference	%	%	
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LOGOS WITH ADDITIONAL INFORMATION

RecyClass Recycled Plastics logo - Example use of 35% of pre-consumer recycled plastics







*35% pre-consumer origin



*35% pre-consumer origin

Recyclass Plastics future is circular

Thank you for your attention



Questions & Answers

Use the Q&A box in the top-right corner of your screen





Thank you for participating!

Save the dates for 2022! 23 February 20 April 6 July

