

The same design for recycling recommendations apply to natural and white plastic packaging, to preserve the high-value of these materials and to ensure the availability of both white and natural recycled plastic on the markets. However, natural and white packaging should be sorted into two distinct streams and recycled separately.

	FULL COMPATIBILITY	LIMITED COMPATIBILITY	NON-COMPATIBILITY
MATERIAL COMPOSITION (TOTAL AMOUNT OF PE & PP IN THE PACKAGING)	<b>A &gt;= 95%, B &gt;= 80% and all packaging features are FULLY compatible with recycling</b>	<b>C &gt;= 70% and all packaging features are FULLY compatible with recycling</b>	Non-recyclable < 70% and all packaging features are FULLY compatible with recycling
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.
DESCRIPTION (METHODOLOGY)	In case of at least one limited compatibility one penalty is applied, lowering the recyclability class from A to B or from B to C	In case of at least one limited compatibility one penalty is applied, lowering the recyclability class from C to non-recyclable	Non-recyclable
PACKAGING			
MATERIALS*	HDPE; Multilayer PE with HDPE prevalence (LLDPE, LDPE, MDPE) TPO <= 10 % (full olefinic or aliphatic structure) TPS <= 5 %	PP; 5 % < TPS <= 10 %	Multilayers HDPE with PLA, PVC, PS, PET, PETG; TPO (containing rubber, e.g. EPDM)
COLOURS	Natural (clear); White	Light colours	Black Inner layer; Black; Carbon Black; Other dark colours
SIZE		Items compacted <= 5 cm	Items compacted <= 2 cm
PRODUCT RESIDUES (EASY TO EMPTY INDEX)	A if the index is < 5%; B if the index is < 10%	C if the index is < 15%	Index is >= 15%
BARRIER	EVOH <= 6.0 % + PE-g-MAH tie layers with MAH > 0.1%wt and EVOH:tie layers ratio <= 2; Fluorination technologies approved by RecyClass; SiOx Plasma Coating	EVOH > 6.0 % + PE-g-MAH tie layers with MAH > 0.1%wt and EVOH:tie layers ratio <= 2; EVOH <= 1 % with any other tie layers	EVOH > 1 % with any other tie layers; PA; PVDC; <b>Plasma Fluorination</b> ; Aluminium; Metallisation; PVOH
ADDITIVES	Additives that are unavoidable in processing (stabilizers, antioxidants, lubricants, nucleating agents, peroxides) and density remains < 0.97 g/cm <sup>3</sup>	Mineral fillers (CaCO <sub>3</sub> , talc) not increasing density more than 0.97 g/cm <sup>3</sup>	Additives changing the material density > 1 g/cm <sup>3</sup> ; Flame-retardant additives; plasticizers; Bio-/oxo-/photodegradable additives
LAMINATING ADHESIVES	Laminating adhesives <b>approved</b> as fully compatible by RecyClass; To be tested if in combination with other barrier material than EVOH; Aliphatic polyurethanes < 2.5%	WB acrylics < 2.5%; Laminating adhesives <b>approved</b> as limited compatible by RecyClass; To be tested if in combination with other barrier material than EVOH	Aliphatic polyurethanes > 2.5%; Aromatic polyurethanes & Water-based acrylics > 2.5%; Laminating adhesive specially developed for high thermal applications above boiling and/or for high chemical resistance (to be tested); Any other laminating adhesives (Epoxy, etc.)
ATTACHMENTS			
COLOURS	Natural (clear); White	Light colours	Black Inner layer, Black, Carbon Black, Other dark colours
CLOSURE SYSTEM	HDPE; LDPE; LLDPE; MDPE PP <= 10 %	PP > 10 %; PET; PETG; PLA; PS (all with a density > 1 g/cm <sup>3</sup> ); Removable aluminium lidding	Non-PO and/or foams with density < 1 g/cm <sup>3</sup> ; Aluminium; Metal; PVC
LINERS, SEALS AND VALVES	HDPE; LDPE; LLDPE; MDPE; TPO; TPS; Foamed PO; EVA	PP; PET, PETG, PLA, PS (all with a density > 1 g/cm <sup>3</sup> ); Removable silicon with a density > 1 g/cm <sup>3</sup> ;	Non-PO with density < 1 g/cm <sup>3</sup> ; Any other TPE; Aluminium; Metal; Foiled paper; PVC
OTHER COMPONENTS	HDPE, LDPE, LLDPE, MDPE	PP; PET; PETG; PLA; PS all with density > 1 g/cm <sup>3</sup>	Aluminium; PVC; Glass components; Foams with density < 1 g/cm <sup>3</sup>
DECORATION*			
LABEL MATERIALS	PE	PP, other PO (with density < 1 g/cm <sup>3</sup> ); PET, PETG, PLA, PS (all with density > 1 g/cm <sup>3</sup> ); Paper without fibreloss; PO-foamed	Non-releasable; Labels that hinder the recognition of the PE; Non PO-materials with density < 1 g/cm <sup>3</sup> ; Paper with fibreloss during recycling process; Aluminium; Metallised labels; PVC
ADHESIVES FOR LABELS	<b>Releasable</b> in the recycling process		Non-releasable in the recycling process
IN-MOULD-LABELS	<b>Releasable</b> in the recycling process		Non-releasable in the recycling process
SLEEVES	PE; Self-separable plastic and cardboard sleeves under mechanical pressure ( <b>sorting test</b> mandatory)	PO (with density < 1 g/cm <sup>3</sup> ); PET, PETG, PET-C, PLA, PS (all with density > 1 g/cm <sup>3</sup> ); Cardboard sleeves without fiberloss ( <b>sorting test</b> mandatory)	Sleeves that hinder the recognition of the PE; Non PO-materials with density < 1 g/cm <sup>3</sup> ; Cardboard sleeves with fibreloss during recycling process; Aluminium; Metallised sleeves; PVC
INKS	Retentive inks compliant with <b>EuPIA Exclusion Policy</b> ; Direct printing for production or expiry date		Bleeding inks; Inks non-compliant with <b>EuPIA Exclusion Policy</b> ; PVC co- and terpolymer binders; any other chlorinated binders; Any other direct printing
OTHER DECORATIVE TECHNOLOGIES	Laser marking for production or expiry date	Electroplating on attachments (with density > 1 g/cm <sup>3</sup> )	Electroplating on attachments (with density < 1 g/cm <sup>3</sup> )

**RECYCLED CONTENT:** No change in the recyclability assessment. A separate '[Recycled Plastics Traceability Certification](#)' based on a Chain of Custody approach is available with RecyClass.

\* Polymer resin can be either fossil- or bio-based, virgin or recycled. If different grades of the same polymer are present, weights should be cumulated.

\*\* Decorative technologies must not hinder the recognition of the underlying PE-polymer. Features as size, print, mass colouration and/or barrier might require to perform a [Sorting Evaluation Protocol](#). Known misleading features are listed on the RecyClass Methodology and the following size indications can be considered to ensure the recognition of PE:

- Size of non-PE surfaces on containers > 500 ml: < 70% coverage

- Size of non-PE surfaces on containers < 500 ml: < 50% coverage

\*\*\* Approved technologies can be found [here](#)

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