

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)	A >= 95%, B >= 80% and all packaging features are FULLY compatible with recycling	C >= 70% and all packaging features are FULLY compatible with recycling	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) <a href="#">TPO &lt;= 10 % (full olefinic or aliphatic structure)</a> <a href="#">TPS &lt;= 5 %</a>	PP; <a href="#">5 % &lt;TPS&lt;= 10 %</a>	Multilayers HDPE with PLA, PVC, PS, PET, PETG; TPO (containing rubber, e.g. EPDM)
MAIN BODY	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	<a href="#">EVOH &lt;= 6.0 % + PE-g-MAH tie layers with MAH &gt; 0.1%wt and EVOH tie layers ratio &lt;= 2</a> ; <a href="#">Fluorination technologies approved by RecyClass</a> ; <a href="#">SiOx Plasma Coating</a>	<a href="#">EVOH &gt; 6.0 % + PE-g-MAH tie layers with MAH &gt; 0.1%wt and EVOH tie layers ratio &lt;= 2</a> ; EVOH <= 1 % with any other tie layers	EVOH > 1 % with any other tie layers; PA; PVDC; <a href="#">Plasma Fluorination</a> ; Aluminium; Metallisation; PVOH
ADDITIVES	Additives that are unavoidable in processing (stabilizers, antioxidants, lubricants, nucleating agents, peroxides) and density remains < 0,97 g/cm³	Mineral fillers (CaCO3, talc) not increasing density more than 0,97 g/cm³	Additives changing the material density > 1 g/cm³; Flame-retardant additives; plasticizers; Bio-/oxo-/photodegradable additives
LAMINATING ADHESIVES	Laminating adhesives <a href="#">approved</a> as fully compatible by RecyClass; To be tested if in combination <a href="#">with other barrier material than EVOH</a> ; Aliphatic polyurethanes < 2.5%	WB acrylics < 2.5%; Laminating adhesives <a href="#">approved</a> 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	<a href="#">HDPE; LDPE; LLDPE; MDPE</a> <a href="#">PP &lt;= 10 %</a>	<a href="#">PP &gt; 10 %</a> ; PET; PETG; PLA; PS (all with a density > 1 g/cm³); Removable aluminium lidding	Non-PO and/or foams with density < 1 g/cm³; Aluminium; Metal; PVC
LINERS, SEALS AND VALVES	HDPE; LDPE; LLDPE; MDPE; TPO; TPS; <a href="#">Foamed PO</a> ; EVA	PP; PET, PETG, PLA, PS (all with a density > 1 g/cm³); Removable silicon with a density > 1 g/cm³;	Non-PO with density < 1 g/cm³; Any other TPE; Aluminium; Metal; Foiled paper; PVC
OTHER COMPONENTS	HDPE, LDPE, LLDPE, MDPE	PP; PET; PETG; PLA; PS all with density > 1 g/cm³	Aluminium; PVC; Glass components; Foams with density < 1 g/cm³
DECORATION**	LABEL MATERIALS PE	PP, other PO (with density < 1 g/cm³); PET, PETG, PLA, PS (all with density > 1 g/cm³); Paper without fibreloss; PO-foamed	Non-releasable; Labels that hinder the recognition of the PE; Non PO-materials with density < 1 g/cm³; Paper with fibreloss during recycling process; Aluminium; Metallised labels; PVC
ADHESIVES FOR LABELS	<a href="#">Releasable</a> in the recycling process		Non-releasable in the recycling process
IN-MOULD-LABELS	<a href="#">Releasable</a> in the recycling process		Non-releasable in the recycling process
SLEEVES	PE; <a href="#">Self-separable plastic and cardboard sleeves under mechanical pressure (sorting test mandatory)</a>	PO (with density < 1 g/cm³); PET, PETG, PET-C, PLA, PS (all with density > 1 g/cm³); Cardboard sleeves without fiberloss ( <a href="#">sorting test mandatory</a> )	Sleeves that hinder the recognition of the PE; Non PO-materials with density < 1 g/cm³; Cardboard sleeves with fibreloss during recycling process; Aluminium; Metallised sleeves; PVC
INKS	Retentive inks compliant with <a href="#">EuPIA Exclusion Policy</a> ; Direct printing for production or expiry date		Bleeding inks; Inks non-compliant with <a href="#">EuPIA Exclusion Policy</a> ; 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/cm³)	Electroplating on attachments (with density < 1 g/cm³)

**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](#)