

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
<b>PACKAGING</b>	HDPE; Multilayer PE with HDPE prevalence (LLDPE, LDPE, MDPE) TPO <= 10 % (full olefinic or aliphatic structure) TPS <= 5 %	PP <= 10 % 5 % <TPS<= 10 %	Multilayers HDPE with PLA, PVC, PS, PET, PETG; 10 % <PP<= 30 % (-2 classes); PP > 30 % (-3 classes); TPO (containing rubber, e.g. EPDM)
<b>MAIN BODY</b>			
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; Plasma Fluorination; 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 approved 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 approved 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.)
<b>ATTACHMENTS</b>			
COLOURS	Natural (clear); White	Light colours	Black Inner layer, Black, Carbon Black, Other dark colours
CLOSURE SYSTEM	HDPE; LDPE; LLDPE; MDPE	PP; 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; Foamed PO; 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
<b>DECORATION**</b>			
LABEL MATERIALS	PE	PP, other PO (with density < 1 g/cm³); PET, PETG, PLA, PS (all with density > 1 g/cm³); Paper without fibreless; PO-foamed	Non-releasable; Labels that hinder the recognition of the PE; Non PO-materials with density < 1 g/cm³; Paper with fibreless during recycling process; Aluminium; Metallised labels; PVC
ADHESIVES FOR LABELS	Releasable in the recycling process		Non-releasable in the recycling process
IN-MOULD-LABELS	Releasable in the recycling process		Non-releasable in the recycling process
SLEEVES	PE; Self-separable plastic and cardboard sleeves under mechanical pressure (sorting test mandatory)	PO (with density < 1 g/cm³); PET, PETG, PET-C, PLA, PS (all with density > 1 g/cm³); Cardboard sleeves without fibreless (sorting test mandatory)	Sleeves that hinder the recognition of the PE; Non PO-materials with density < 1 g/cm³; Cardboard sleeves with fibreless during recycling process; Aluminium; Metallised sleeves; PVC
INKS	Non-bleeding inks compliant with EuPIA Exclusion Policy; Direct printing for production or expiry date		Bleeding inks; Inks non-compliant with EuPIA Exclusion Policy; 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](#)