

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.

	CATEGORY	FULL COMPATIBILITY	LIMITED COMPATIBILITY	NON COMPATIBILITY
	Material Composition (total amount of PP & PE attachments in the packaging)	A ≥ 95 %, B ≥ 80 %	C ≥ 70 %	Non-recyclable < 70 %
	Description (Testing 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 PP 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 PP recycling	Materials that failed the testing protocols OR materials that have not been tested (yet), but pose a high risk of interfering with PP 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
PACKAGE	Materials*	PP TPO ≤ 10 % (full olefinic or aliphatic structure) TPS ≤ 10 %	PE ≤ 10 %	Multilayers PP with PLA, PVC, PS, PET, PETG; PE > 10 %; 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 %
	Barriers	EVOH ≤ 6.0 % + PPPO-g-MAH tie layers with MAH ≥ 0.1 % and EVOH:tie layers ratio ≤ 2	EVOH > 6.0 % + PPPO-g-MAH tie layers with MAH ≥ 0.1 % and EVOH:tie layers ratio ≤ 2	EVOH with different tie layers; PA; PVDC; Aluminium; Metallisation
	Additives and Fillers	Additives that are unavoidable in processing (stabilizers, antioxidants, lubricants, nucleating agents, peroxides) and non-foamed blend density remains ≤ 0.97 g/cm ³ . Mineral fillers (CaCO ₃ , talc) not increasing non-foamed blend density more than 0.97 g/cm ³ .	Additives that are unavoidable in processing (stabilizers, antioxidants, lubricants, nucleating agents, peroxides) and non-foamed blend density remains between 0.97 and 1 g/cm ³ (to be tested). Mineral fillers (CaCO ₃ , talc) leading to a non-foamed blend density between 0.97 and 1 g/cm ³ (to be tested).	Additives changing the material density ≥ 1 g/cm ³ . Flame-retardant additives, plasticizers, Bio-/oxo-/photodegradable additives
	Laminating Adhesives	Aliphatic PU ≤ 2.3 % Laminating adhesives approved as fully compatible by RecyClass; To be tested if in combination with a barrier material	Acrylic ≤ 2.5 %; Aliphatic PU between 2.3 and 4.5 % Laminating adhesives approved as limited compatible by RecyClass; To be tested if in combination with a barrier materials	PU > 4.5 %; Aromatic PU; To be tested: Laminating adhesives specially developed for high thermal applications above boiling and/or for high chemical resistance
ATTACHMENTS	Colours	Natural (clear), White	Light colours	Black Inner layer, Black, Carbon Black, Other dark colours
	Closure Systems	PP	HDPE, LDPE, LLDPE, MDPE; PET, PETG (all with a density > 1 g/cm ³); Removable aluminium lidding	Non-PO and/or foams with density ≤ 1 g/cm ³ . Aluminium, Metal, PVC; PS; PLA****
	Liners, Seals and Valves	PP, TPO; TPS; PO foamed; EVA	HDPE, LDPE, LLDPE, MDPE; PET, PETG (all with a density > 1 g/cm ³); Removable silicone with a density > 1 g/cm ³ ;	Non-PO with density ≤ 1 g/cm ³ ; Any other TPE, Aluminium, Metal, Foiled paper, PVC; PS, PLA****
	Other Components	PP	PE with density ≤ 1 g/cm ³ ; PET, PETG (all with a density > 1 g/cm ³)	Aluminium, PVC, glass components; PS, PLA**** Non-PO and/or foams with density ≤ 1 g/cm ³
DECORATION****	Label Materials	PP (all with density ≤ 1 g/cm ³)	PE, PO (with density ≤ 1 g/cm ³); PET, PETG (all with a density > 1 g/cm ³) Paper without fibre loss, PO-foamed	Non-releasable; Labels that hinder the recognition of the PP; Non-PO materials with density ≤ 1 g/cm ³ ; Paper with fibre loss during recycling process Aluminium; Metallised labels; PVC; PS, PLA****
	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	PO (with density ≤ 1 g/cm ³). Self-separable plastic and cardboard sleeves under mechanical stress (sorting test mandatory)	PE (with density ≤ 1 g/cm ³); PET, PETG (all with a density > 1 g/cm ³); Cardboard sleeves without fibre loss (sorting test mandatory)	Sleeves that hinder the recognition of the PP, Non-PO materials with density ≤ 1 g/cm ³ , Cardboard sleeves with fibre loss during recycling process, Aluminium; Metallised sleeves; PVC; PS, PLA****
	Inks	Non-bleeding (Retentive)** inks compliant with EuPIA Exclusion Policy Direct printing for production or expiry date		Bleeding inks**; Inks non-compliant with EuPIA Exclusion Policy ; PVC coand terpolymers binders; any other chlorinated binders; Any other direct printing
	Other Decorative Technologies	Laser marking for production or best-before date	Electroplating on attachments (with density > 1 g/cm ³)	Electroplating on attachments (with density ≤ 1 g/cm ³)

Disclaimer: Use of recycled content does not impact the recyclability assessment.

*Polymer resin can be either fossil- or bio-based, virgin or recycled.

** According to the QUICK TEST PROCEDURE FOR BLEEDING INKS PRINTED ON HDPE & PP CONTAINERS

Non-bleeding (retentive) inks behaviour can be evaluated using RecyClass Quick Test Procedure for Bleeding Inks applied on PE & PP Films.

*** Decorative technologies must not hinder the recognition of the underlying PP-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 PP:

- Size of non-PP surfaces on containers > 500 ml: ≤ 70% coverage
- Size of non-PP surfaces on containers ≤ 500 ml: ≤ 50% coverage

**** Due to inefficiencies in sink-float separation, limited market uptake, and constraints around certification validation