Natural and White PP Containers

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 **PP** & **PE** 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 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
PACKAGING	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 %
	BARRIER	EVOH <= 6 % + PP-g -MAH tie layers with MAH >= 0.1wt% and EVOH:tie layers ratio <= 2;	EVOH > 6 % + PP-g -MAH tie layers with MAH >= 0.1wt% and EVOH:tie layers ratio <= 2;	EVOH with different tie layers; PA; PVDC; Aluminium; Metallisation
	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	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 material	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 SYSTEM	PP	HDPE; LDPE; LLDPE; MDPE; 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	PP; TPO; TPS; EVA; PO foamed	HDPE; LDPE; LLDPE; MDPE; 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	PP	PE with density < 1 g/cm³; PET; PETG; PLA; PS all with density > 1 g/cm³	Aluminium; PVC; Glass components; Non-PO and /or foams with density < 1 g/cm³
DECORATION**	LABEL MATERIALS	PP (all with density < 1 g/cm³)	PE, 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 PP; Non PO-materials with density < 1 g/cm³; Paper with fibreloss 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	PO (all with density < 1 g/cm³), Self-separable plastic and carboard sleeves under mechanical stress (sorting test mandatory)	PE (with density < 1 g/cm³); PET, PETG, PET-C, PLA, PS (all with density > 1 g/cm³); Cardboard sleeves without fiberloss (sorting test mandatory)	Sleeves that hinder the recognition of the PP; Non PO-materials with density < 1 g/cm³ ; Cardboard sleeves with fiberloss during recycling process; Aluminium; Metalised Sleeves; PVC
	INKS	Retentive 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 marked for production or best-before 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 underlaying 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

*** Approved technologies can be found here

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