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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