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<br>(TOTAL AMOUNT OF PP & PE IN THE<br>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<br>(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<br>(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  |
| 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)  |
| COLOURS   | Natural (clear); White  | Light colours  | Black Inner layer; Black; Carbon Black;<br>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 $<0.97  \text{g/cm}^3$       | Mineral fillers (CaCO3, talc) not increasing density more than 0,97 g/cm³  | $\label{eq:Additives} Additives changing the material density > 1~g/cm^3; Flame-retardant~additives, plasticizers; Bio-/oxo-/photodegradable~additives additives.$                            |
| LAMINATING ADHESIVES  | Aliphatic PU <= $2.3\%$<br>Laminating adhesives <u>approved</u> 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 %<br>Laminating adhesives approved as limited compatible by RecyClass; To be tested if in combination with a barrier material | PU > 4.5 %; Aromatic PU;<br>To be tested: Laminating adhesives specially developed for high thermal applications above boiling and/or<br>for high chemical resistance                         |
| COLOURS   | Natural (Clear); White  | Light colours  | Black inner layer, Black, Carbon Black, Other dark colours  |
| CLOSURE SYSTEM  | PP  | HDPE; LDPE; MDPE;<br>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;<br>TPO; TPS; EVA; PO foamed   | HDPE; LDPE; MDPE;<br>PET, PETG, PLA, PS (all with a density > 1 g/cm³);<br>Removable silicon with a density > 1 g/cm³;   | Non-PO with density < 1 g/cm³;<br>Any other TPE;<br>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;<br>Non-PO and /or foams with density < 1 g/cm³  |
| 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;<br>Non PO-materials with density < 1 g/cm²;<br>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   |
| STEENES   | 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;<br>Non PO-materials with density < 1 g/cm³;<br>Cardboard sleeves with fiberloss during recycling process; Aluminium; Metalised Sleeves;<br>PVC |
| INKS  | Retentive inks compliant with <u>FuPIA Exclusion Policy:</u> Direct printing for production or expiry date  |  | Bleeding inks;<br>Inks non-compliant with EuPIA Exclusion Policy;<br>PVC co- and terpolymer binders; Any other chlorinated binders;<br>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

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<sup>\*</sup> 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.

<sup>\*\*</sup> 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:

<sup>-</sup> Size of non-PP surfaces on containers > 500 ml; < 70% coverage - Size of non-PP surfaces on containers < 500 ml; < 50% coverage

<sup>\*\*\*</sup> Approved technologies can be found here