

| | CATEGORY | FULL COMPATIBILITY | LIMITED COMPATIBILITY | NON COMPATIBILITY |
|-----------------------|--|--|--|--|
| | Material Composition (Amount of PS 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 PS 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 PS recycling | Materials that failed the testing protocols OR materials that have not been tested (yet), but pose a high risk of interfering with PS 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 | Material* | PS | | PS foamed ≤ 1 g/cm ³ , multilayers (e.g. PET, PETG, PVC, PLA, HDPE, PP) |
| MAIN BODY | Colours | Light colours | Dark colours (NIR detectable) | Non NIR detectable 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 ≤ 5.0 % + PE-g-MAH tie layers and EVOH:tie layers ratio ≤ 1 PE ≤ 4.5 % in combination with EVA tie layers | EVOH > 5.0 % + PE-g-MAH tie layers and EVOH:tie layers ratio ≤ 1 4.5 ≤ PE ≤ 9 % in combination with EVA tie layers | PA; PVDC |
| | Additives | Additives that are unavoidable in processing (stabilizers, antioxidants, lubricants, nucleating agents, peroxides) and in formulation (SBS copolymer) with density that remains between 1 and 1.07 g/cm ³ | Mineral fillers (CaCO ₃ , talc) not increasing density > 1.07 g/cm ³ | Additives increasing density > 1.07 g/cm ³ ; Bio/oxo/photodegradable additives |
| ATTACHMENTS | Closure Systems | PS | Removable PP and/or PE; paper without fibre loss | PET, PETG, PVC, PLA; Paper with fibre loss. Any other material with density > 1 g/cm ³ , Non-detaching or welded closures, Aluminium, metal |
| | Liners, Seals and Valves | PS | PP; PE; EVA; TPE (non welded and with density ≤ 1 g/cm ³) | PET, PETG, PVC, PLA; Any other material with density > 1 g/cm ³ ; Metal, metal foil, silicone |
| | Lids | PS | Removable PP and/or PE; <u>Removable aluminium lidding</u> ; Removable PET; Paper without fibre loss; | PVC; Non removable aluminium lidding; paper with fibre loss; non-removable PET, Multilayer PET/paper or PET/PS; Any other material with density > 1 g/cm ³ |
| | Other Components | PS | Removable PP and/or PE; Paper without fibre loss | PET; PETG; PVC; PLA; metal; metal foil; any other material with density > 1 g/cm ³ |
| | Label Materials | PS | PP, PE (with density ≤ 1 g/cm ³); Label in paper without fibre loss | Labels that hinder the recognition of the PS; PET; PETG; PVC; PLA; Paper with fibre loss; In-Mould-Labels; Metallised materials; Aluminium |
| DECORATION**** | Adhesives for Labels | <u>Releasable</u> in the recycling process | | Non-releasable in the recycling process |
| | Sleeves | PS; <u>Self-separable plastic and cardboard sleeves under mechanical pressure (sorting test mandatory)</u> | PE, PO (with density ≤ 1 g/cm ³); Cardboard sleeves without fibre loss (sorting test mandatory) | Sleeves that hinder the recognition of the PS; Non-PO materials with density ≤ 1 g/cm ³ ; PET; PETG; PVC; PLA; Cardboard sleeves with fibre loss during recycling process; Metallised materials; Heavily inked sleeves; Aluminium |
| | Inks | Non-bleeding (Retentive)**** inks compliant with <u>EuPIA Exclusion Policy</u> Inks & Lacquers for direct printing representing ≤ 1 % of the total packaging, not hindering NIR detection | More than 1 % direct printing | Bleeding inks****; Inks non compliant with <u>EuPIA Exclusion Policy</u> ; PVC co- and terpolymer binders; any other chlorinated binders |
| | Other Decorative Technologies | Laser marking | | |

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

*Polymer resin can be either fossil- or bio-based, virgin or recycled. EPS commercial packaging should refer to other existing DfR Guidelines (i.e. EPS white goods and EPS fish boxes). XPS and EPS household packaging are not recycled into the PS stream. To recycle them, it is necessary to develop a separate stream.

**Approved technologies can be found [here](#).

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

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

****According to RecyClass Quick Test Procedure for Bleeding Inks applied on PS Containers.