

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 (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)
	Colours	Natural, white		Any other colour
MAIN BODY	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
	Colours	Natural, White	Light colours	Black Inner layer, Black, Carbon Black, Other dark colours
ATTACHMENTS	Closure Systems	PS	Removable PP and/or PE	PET; PETG; PVC; PLA; Paper; 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 aluminium lidding ; Removable PP and/or PE; Removable PET	PVC; Non removable aluminium lidding; Paper; 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	PET, PETG, PVC, PLA, metal, metal foil, paper; Any other material with density > 1 g/cm ³
	Label Materials	PS	PP, PE (with density ≤ 1 g/cm ³) not hampering the NIR detection (sorting test mandatory); Paper label without fibre loss	Non removable or partially removable labels; Labels that hinder the recognition of the PS; PET, PETG, PVC, PLA; Paper label with fibre loss; In-Mould-Labels; Metallised materials; Aluminium
DECORATION***	Adhesives for Labels	Releasable in the recycling process		Non-releasable in the recycling process
	Sleeves	PS; Self-separable plastic and cardboard sleeves under mechanical pressure (sorting test mandatory)	PE, PO (with density ≤ 1 g/cm ³); not hampering the NIR detection (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 EuPIA Charter		Bleeding inks****; Inks non compliant with EuPIA Charter ; PVC co-and terpolymer binders; any other chlorinated binders. Any other direct printing
	Other Decorative Technologies	Laser marking for production or expiry date		

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.