

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.**

	YES - FULL COMPATIBILITY	CONDITIONAL - LIMITED COMPATIBILITY	NO - LOW COMPATIBILITY
MATERIAL COMPOSITION (AMOUNT OF PS IN THE PACKAGING)*	A >= 95%, B >= 90% and all packaging features are FULLY compatible with recycling	C >= 70% and all packaging features are FULLY compatible with recycling	D >= 50%, E >= 30% 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 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 D	In case of at least one limited compatibility one penalty is applied, lowering the recyclability class from D to E or from E to F
PACKAGING	MATERIAL*	PS	PS foamed < 1 g/cm³; multilayers (e.g. PET, PETG, PVC, PLA, HDPE, PP)
MAIN BODY	COLOURS	Natural, white	Any other colour
	SIZE		Items compacted <= 5 cm
	PRODUCT RESIDUES (EASY TO EMPTY INDEX)	A if the index is < 5%; B if the index is < 10%	D if the index is < 20%; E < if the index is 25%; F if the index is > 25%
	BARRIER	EVOH <= 5.0 wt% + PE-g-MAH tie layers and EVOH:Tie layers ratio <= 1	EVOH > 5.0 wt% + PE-g-MAH tie layers and EVOH:Tie layers ratio <= 1
	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/cm³	Mineral fillers (CaCO3, talc) not increasing density > 1.07 g/cm³
ATTACHMENTS	COLOURS	Natural, White	Black Inner layer, Black, Carbon Black, Other dark colours
	CLOSURE SYSTEM	PS	Removable PP and/or PE
	LINERS, SEALS AND VALVES	PS	PP; PE; EVA; TPE (non welded and with density <1 g/cm³)
	LIDS	PS	Removable aluminium lidding ; Removable PP and/or PE
	OTHER COMPONENTS	PS	Removable PP and/or PE
	INKS	Non-bleeding inks compliant with EuPIA Exclusion Policy	Inks that bleed; Inks non-compliant with EuPIA Exclusion Policy ; PVC binders
DECORATION**	LABELS MATERIALS*** (PSL, WET-GLUE LABELS, WRAP-AROUND LABELS, IML)	Removable labels in PS	Removable labels in PP, PE (with density < 1 g/cm³) not hampering the NIR detection (sorting test mandatory)
	ADHESIVES FOR LABELS	Water soluble adhesive (@ less than 40°C); Water releasable adhesive (@ less than 40°C)	Non-water soluble adhesive (@ less than 40°C); Non-water releasable adhesive (@ less than 40°C)
	SLEEVES	Sleeves in PS; Self-separable plastic and cardboard sleeves under mechanical pressure (sorting test mandatory)	Sleeves in PE, PO (with density <1 g/cm³) not hampering the NIR detection (sorting test mandatory)
	DIRECT PRINTING	Laser marked; Production or best-before date;	Sleeves that hinder the recognition of the PS; Sleeves in non PO-materials with density <1 g/cm³; PET, PETG, PVC, PLA; Cardboard sleeves; Metallised materials; Heavily inked sleeves; Aluminium
	OTHER DECORATIVE TECHNOLOGIES		Any other direct printing

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. 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.

** A removable label is a label resulting in a removal efficiency equal or higher than 90% by grinding and washing the packaging. RecyClass is developing a standard testing procedure to prove label removability.

*** 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

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