Coloured PS containers*

		FULL COMPATIBILITY	LIMITED COMPATIBILITY	NON-COMPATIBILITY
	MATERIAL COMPOSITION (AMOUNT OF **PS** 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 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/cm³; multilayers (e.g. PET, PETG, PVC, PLA, HDPE, PP)
MAIN BODY	COLOURS	Light colours	Dark colours (NIR detectable)	Non NIR detectable colours
MAIN BODY	SIZE		Items compacted < 5 cm	Items compacted < 2 cm
MAIN BODY	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 %
MAIN BODY	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	PA; PVDC
MAIN BODY	ADDITIVES	Additives that are unavoidable in processing (stabilizers, antioxidants, lubricants, nucleating agents, peroxides) and in formulation (SBS copolymer) with density remains between 1 and 1,07 g/cm³	Mineral fillers (CaCO3, talc) not increasing density > 1,07 g/cm³	Additives increasing density > 1,07 g/cm³; Bio/oxo/photodegradable additives
ATTACHMENTS	CLOSURE SYSTEM	PS	Removable PP and/or PE, paper without fiberloss	PET; PETG; PVC; PLA; Paper with fiberloss; Any other material with density >1 g/cm³; Non detaching or welded closures; Aluminium; metal
ATTACHMENTS	LINERS, SEALS AND VALVES	PS	PP; PE; EVA; TPE (non welded and with density <1 g/cm³)	PET; PETG; PVC; PLA; Any other material with density >1 g/cm³; Metal; metal foil; silicone
ATTACHMENTS	LIDS	PS	Removable PP and/or PE; Removable aluminium lidding; Removable PET; Paper without fiberloss;	PVC; Non removable aluminium lidding; paper with fiberloss; non-removable PET. Multilayer PET/paper or PET/PS; Any other material with density >1 g/cm³
ATTACHMENTS	OTHER COMPONENTS	PS	Removable PP and/or PE; paper without fiberloss	PET; PETG; PVC; PLA; metal; metal foil; any other material with density >1 g/cm³
DECORATION**	LABEL MATERIALS	PS	PP, PE (with density < 1 g/cm³); Label in paper without fiberloss	Labels that hinder the recognition of the PS; PET; PETG; PVC; PLA; Paper with fiberloss; In-Mould-Labels; Metallised materials; Aluminium
DECORATION**	ADHESIVES FOR LABELS	Releasable in the recycling process		Non-releasable in the recycling process
DECORATION**	SLEEVES	PS; Self-separable plastic and cardboard sleeves under mechanical pressure (sorting test mandatory)	PE, PO (with density < 1 g/cm³); Cardboard sleeves without fiberloss (sorting test mandatory)	Sleeves that hinder the recognition of the PS; Non PO-materials with density < 1 g/cm³, PET; PETG; PVC; PLA; Cardboard sleeves with fibreloss during recycling process; Metallised materials; Heavily inked sleeves; Aluminium
DECORATION**	INKS	Retentive inks compliant with EuPIA Exclusion Policy; Inks & lacquers for direct printing representing < 1 wt% of the total packaging, not hindering NIR detection	More than 1 wt% direct printing (to be tested)	Bleeding inks; Inks non compliant with EuPIA Exclusion Policy; PVC co-and terpolymer binders; any other chlorinated binders
DECORATION**	OTHER DECORATIVE TECHNOLOGIES	Laser marking		

RECYCLED CONTENT: No change in the recyclability assessment. A separate 'Recycled PlasticsTraceability 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.

** Decorative technologies must not hinder the recognition of the underlaying 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

*** Approved technologies can be found here

Last update: July 2025

RecyClass
Avenue de Broqueville 12
1150 Brussels, Brussels

Phone: +32 2 786 39 08
info@recyclass.eu
www.recyclass.eu