

Design For Recycling

GUIDELINES for packaging

*Polymer resin can be either fossil- or bio-based, virgin or recycled.

**Temporary solution

*** Nitrocellulose (NC) based inks impact on recyclability is under investigation by RecyClass.

Material:

- PET bottle
- PET tray
- PP rigid

PP flexible

Coloured

- PE rigid
- PE flexible
- PS
- Paper & cardboard
- Beverage carton
- Glass
- Steel
- Aluminium



		Yes - Full compatibility	Conditional - Limited compatibility	No - Low (or no) compatibility
Main body	Material*	PP	Multilayer PP/PE with PE ≤ 10%	Multilayer PE/PP with PP > 10%; Any other polymer (e.g. PET, PVC, etc.)
	Colours	Light colours; translucent colours	NIR-detectable dark colours (Sorting test)	Non NIR-detectable dark colours
	Size	> A4 or > 50 x 50 mm once compacted	< A4 format or between 20x20 and 50x50 mm once compacted (Sorting test)	< 20 x 20 mm
	Product residues	A if the index Easy-to-empty is < 5%; B if the index is < 10%	C if the index Easy-to-empty is < 15%	D if index <20%; E < if index 25%; F if index > 25%
	Barrier	SiOx and AlOx without additional coatings	≤ 5% EVOH (in polyolefin combination film); metallisation	> 5% EVOH (in polyolefin combination film); Barrier layer PVC, PVDC, PA; any other barrier layer; aluminium
	Additives	Additives that do not increase the density higher than 0,97 g/cm ³	PBT Voiding Agent <5%	Bio-/oxo-/photodegradable additives; Additives that do increase the density higher than 0,97 g/cm ³ (CaCO ₃ , talc, glass fibers...)
	Laminating adhesives	Laminating adhesives approved as fully compatible by RecyClass; To be tested if in combination with a barrier material	Laminating adhesives approved as limited compatible by RecyClass; To be tested if in combination with a barrier material	Any other laminating adhesives
Attachments	Closure Systems	PP (including PP-plastomers)	PE	Metal, aluminium, PVC, PET, PETG, PS, PLA, non PO or foams with density < 1 g/cm ³
	Liners, Seals and Valves	PP (including PP-plastomers)	PE, removable aluminium liddings	Metal, aluminium, PVC, PET, PETG, PS, PLA, foiled paper, non PO or foams with density < 1 g/cm ³
	Other Attachments	PP (including PP-plastomers)	PE	Metal, aluminium, PVC, PET, PETG, PS, PLA, non PO or foams with density < 1 g/cm ³
Decoration	Inks***	Non-bleeding inks compliant with EuPIA Exclusion Policy		Inks that bleed; Inks non-compliant with EuPIA Exclusion Policy
	Labels	PP	PE	Metallized labels, any other; paper labels
	Adhesives for labels	Water soluble or water-releasable at less than 40°C		Adhesives non-soluble in water or non-releasable in water at less than 40°C
	Direct Printing	Laser marked print; Printed production or expiry date; printing covering < 50%**	Printing covering > 50%**	