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.

CIRCPACK

		Yes - Full compatibility	Conditional - Limited compatibility	No - Low (or no) compatibility
Material:	Material*	Oriented and non-oriented PP (including PP-plastomers)	Multilayer PP/PE with PE ≤ 10%	Any other polymer (ex. PET, PVC, etc.)
	Colours	Unpigmented; transparent	Light colours; translucent colours	Dark colours; black; carbon black
•PET bottle •PET tray	Size	> A4 or > 50 x 50 mm once compacted	< A4 format or between 20 x 20 and 50 x 50 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%
•PP rigid PP flexible Transparent	Barrier G	SiOx and AlOx without additional coatings		> 5% EVOH (in polyolefinic combination film); Barrier layer PVC, PVDC, PA; AIOx coating with PVOH primer; any other barrier layer; metallisation; aluminium
•PE rigid •PE flexible •PS	Additives	Aliphatic polyurethanes <= 2.3%; Laminating adhesives approved as fully compatible by RecyClass; To be tested if in combination with a barrier material		PBT Voiding Agent; Bio-/oxo-/photodegradable additives; foaming agents used as expandant chemical agents; Additives that do increase the density higher than 0,97 g/cm ³ (CaCO3, talc, glass fibers, etc.)
•Paper & cardboard •Beverage carton •Glass	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	Aliphatic polyurethanes > 4.5%; Aromatic polyurethanes; To be tested: Acrylics; Laminating adhesives specially developed for high thermal applications above boiling and/or for high chemical resistance; Any other laminating adhesives
•Steel	Closure Systems	PP		Metal, aluminium, PVC, PET, PETG, PS, PLA, non PO or foams with density < 1 g/cm ³
•Aluminium	Liners, Seals and Valves	PP		Metal, aluminium, PVC, PET, PETG, PS, PLA, foiled paper, non PO or foams with density < 1 g/cm ³
	Other Attachments	PP		Metal, aluminium, PVC, PET, PETG, PS, PLA, non PO or foams with density < 1 g/cm ³
	Inks***	Non-bleeding inks compliant with <u>EuPIA Exclusion Policy</u>		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%**