Design For Recycling

GUIDELINES for packaging

* Decorative technologies must not hinder the recognition of the underlying PET-polymer, such as size, print, mass colouration and/or barrier. The following size indications can be considered to ensure the recognition of PET:

- Size of non-PET surfaces on containers > 500 ml: < 70% coverage - Size of non-PET surfaces on containers < 500 ml: < 50% coverage The DfR guidelines for RecyClass plastic packaging are 100% aligned with.... For more info, please visit https://recyclass.eu/



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		Yes - Full compatibility	Conditional - Limited compatibility	No - Low (or no) compatibility
Material:	Material	PET Thickness >180 microns	PET/PE multilayer with or without barrier not hindering NIR detection of the PET	Any PET based multilayer inc PET/PE; PLA; PVC; PS; PETG; C-PET; PET-GAG; Expanded PET. Thickness <180 microns
	Material composition	A when PET content is > 95%; B when PET content is > 90% and all packaging features are FULLY compatible with recycling	C when PET content is > 70% and all packaging features are FULLY compatible with recycling	D when PET content is > 50%; E when PET content is> 30%; F when PET content is < 30%
•PET Dollies	Colours	Transparent clear		Other transparent colours; Opaque; Metallic
PET thermoform	Size		Items compacted < 5 cm	Items compacted < than 2 cm
•PP rigids	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 flexibles	Barrier	PET based oxygen scavenger without yellowing effect; SiOx and AlOx plasma for barrier on lid; For multilayers: Barrier material within PE layer	PET based oxygen scavenger with limited yellowing effect	Barrier layers within the PET layer or in direct contact to PET layer;
	Additives	(I.e PE/EVOH/PE) or with barrier material blended in PE	IN stabilizers AA blackers actively bighters with balving	PA; any other barrier; any other oxygen scavenger
•PE flexibles	Additives	Sincone surface coating; Antiblocking masterbatch $\leq 3\%$	masterbatch (> 3%); anti-stat agents; anti-fogging agents	Bio-/oxo-/photodegradable additives; Nanocomposites
•PS	Laminating	Water-based Acrylics	EVA	Solvent-free
•Paper & cardboard	Adhesives			
•Beverage cartons	Closure Systems; Lidding films	Floating plastics with density < 1 g/cm ³ and easily removal from the tray and without glue residuals;	Unprinted PET or BOPET films; Foamed PET	Any other films
•Glass	Other Components	PET Trays with porous enabling liquid retention	Soaker pads & bubble pads easily removable by hands; Soaker	PVC / PS / EPS / PU / PA; PC/PMMA; Thermoset plastics/metal
•Steel	tach		pads not hindering recognition of the underlying PET polymer by	Soaker pads & bubble pads not easily removable by hands or
	Att		covering less than 50% of the back of the tray (softing test mandatory above 50% coverage). Black soaker pads (softing test)	leaving residue glue
Aluminium	Inks	Retentive inks compliant with EuPIA Exclusion Policy applied on removable parts; Inks applied on fully removable lids and labels	Production or expiry date directly applied on tray	Bleeding inks; Inks non-compliant with EuPIA Exclusion Policy; PVC co- and terpolymer binders; Any other chlorinated binders; Any direct printing on PET thermoform
	Labels	Labels in PE; PP; OPP (all with density <1 g/cm ³ and also in the more heavily printing area), with a size that does not hinder [*] the recognition of the underlaying PET-polymer (ie < 50% coverage)	BPA-free paper labels without fibreloss during recycling process Labels with a coverage >50% (sorting test)	Plastic labels with density > 1 g/cm³; Paper labels with fibreloss during recycling process; Paper labels containing BPA; Non floating paper labels
	Adhesives (for lids, labels,)	Alkali/water soluble or alkali/water releasable adhesive at 70°C	Alkali/water soluble or alkali/water partially releasable adhesive at 70°C	Any other adhesives
7	Other Decorative Technologies	Laser marking for production or expiry date		Any other laser marking