

TRANSPARENT COLOURED PET BOTTLES

	YES - FULL COMPATIBILITY	CONDITIONAL - LIMITED COMPATIBILITY	NO - LOW COMPATIBILITY
CLASS RANKING*	A-B	B-C	D-E-F
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 PET 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 PET recycling	Materials that failed the testing protocols OR materials that have not been tested (yet), but pose a high risk of interfering with PET recycling
BOTTLE**	PET		PLA; PVC; PS; PETG
MATERIAL COMPOSITION	A when PET content is > 95%; B when PET content is > 90%	C when PET content is > 70%	D when PET content is > 50%; E when PET content is > 30%; F when PET content is < 30%
COLOURS	Transparent light colours	Transparent dark colours	Opaque; Fluorescence; Metallic
SIZE			< 4 cm (compact); > 5 liter content
PRODUCT RESIDUES (Easy to Empty index)	A if the index is < 5%; B if the index is < 10%	C if the index is < 15%	D if the index is < 20%; E < if the index is 25%; F if the index is > 25%
BARRIER	SiOx coating; Carbon plasma-coating; PA-MXD6 multilayer with <6wt% PA-MXD6 and no tie layers; PTN alloy	EVOH multilayer with <3 wt% EVOH and no tie layers; PA-MXD6 multilayer with <6wt% PA-MXD6 including tie layers; Monolayer PA-MXD6 blend; PGA multilayer UV stabilisers; Acetaldehyde (AA) blockers; Optical brighteners; Oxygen scavengers	EVOH multilayer with >3wt% EVOH or with tie layers. PA-MXD6 multilayer with >6wt% PA-MXD6
ADDITIVES			Bio-/oxo-/photodegradable additives; Nanocomposites
CLOSURE SYSTEM	PE (with density <1 g/cm ³); PP (with density <1 g/cm ³)		Materials and blends with density >1 g/cm ³ (e.g. highly filled PE, metals,...); Non-detaching or welded closures
LINERS, SEALS AND VALVES	PE; PE + EVA; PP; foamed PET (all with a density <1 g/cm ³)	Silicone with density <0.95g/cm ³	Materials with density >1 g/cm ³ (e.g. PVC, silicone, metals)
LABELS	Labels in PE; PP; OPP; EPS; foamed PET (all with density <1 g/cm ³), with a size that does not hinder* the recognition of the underlying PET-polymer <i>* indication label size of bottles > 500 ml: < 70% coverage</i> <i>* indication label size of bottles ≤ 500 ml: < 50% coverage</i>	Lightly metallized labels; Paper labels without fiberlosses	Labels which hinder the recognition of the underlying PET-polymer (e.g. too large, metallised, heavily inked); Labels with density >1 g/cm ³ (e.g. PVC; PS; PET; PETG; PLA); Metallized labels; Non-detaching or welded labels; Paper labels with fibreless; Foamed PETG labels (even with density <1 g/cm ³); PET labels with washable inks
SLEEVES	Sleeves in PE; PP; OPP; EPS; foamed PET; LDPET (all with density <1 g/cm ³), with a size that does not hinder* the recognition of the underlying PET-polymer <i>* Indication sleeve size of bottles > 500 ml: < 70% coverage</i> <i>* Indication sleeve size of bottles ≤ 500 ml: < 50% coverage</i>	Full sleeves translucent for IR detection in PE; PP; OPP; EPS; foamed PET; LDPET; all with density <1 g/cm ³ INTERIM: Twin-perforated sleeves for household and personal care conform guidelines by EPBP	Sleeves which hinder the recognition of the underlying PET-polymer (e.g. too large, metallised, heavily inked); Sleeves with density >1 g/cm ³ (e.g. PVC; PS; PET; PETG); Foamed PETG sleeves (even with density <1 g/cm ³); PET sleeves with washable inks
TAMPER EVIDENCE WRAP	PE; PP; OPP; EPS, Foamed PET (all with density <1 g/cm ³)		Materials with density >1 g/cm ³ (e.g. metal; PVC; PS; PETG); Metallised materials. Foamed PETG (even with density <1 g/cm ³); PET with washable inks
ADHESIVES FOR LABELS	Alkali/water soluble and alkali/water releasable adhesive at 60-80°C without reactivation	Hot-melts; Pressure-sensitive labels	Non-soluble in water or alkaline at 60-80°C; Non-releasable in water or alkaline at 60-80°C
INKS	Non-toxic (according to EUPIA guidelines)		Inks that bleed; Toxic or hazardous inks
DIRECT PRINTING	Laser marked print	Production or expiry date	Any other direct printing
OTHER COMPONENTS	Base cup, handles or other components which are separated by grinding and float/sink - all with density <1 g/cm ³ ; PET		Materials with density >1 g/cm ³ (e.g. metal, RFID tags); Non-detaching or welded components
RECYCLED CONTENT	No change in the recyclability assessment. A separate 'Recycled Content Traceability Certification' based on a Chain of Custody approach is available with RecyClass		

Last update - February 2021

* Class ranking resulting from the RecyClass assessment. B class is reported two times because of the 90-95% amount of PET in the packaging or because of slight incompatibilities in the design.

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