



PE-HD Natural Containers

	YES - FULL COMPATIBILITY	CONDITIONAL - LIMITED COMPATIBILITY	NO - LOW COMPATIBILITY
	A-B*	B-C*	D-E-F*
	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 HDPE 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 HDPE recycling	Materials that failed the testing protocols OR materials that have not been tested (yet), but pose a high risk of interfering with HDPE recycling
Container	HDPE; Multilayer HDPE with other PE (LLDPE, LDPE, MDPE).		Multilayers HDPE with PLA; PVC; PS; PET; PETG
Size		Items compacted < 5 cm	Items compacted < than 2 cm
Colours	Natural (clear);	Light colours	Black Inner layer; Black; Carbon Black; Other dark colours
Barrier	EVOH<6.0%wt +3.0% PE-g-MAH tie layers with MAH>0.1%wt; Enkase (fluorination);	EVOH>6.0%wt +3.0% PE-g-MAH tie layers with MAH>0.1%wt; EVOH <1% with any other tie layers.	EVOH > 1% with any other tie layers; PA; PVDC; Aluminium
Additives			Additives changing the material density > 1g/cm <sup>3</sup>
Closure Systems	HDPE; LDPE; LLDPE; MDPE	PP; PET; PETG; PS; PLA (all with a density >1g/cm <sup>3</sup> ).	Non-PO and/or foams with density <1g/cm <sup>3</sup> ; Aluminium; Metal; PVC
Linens, Seals and Valves	HDPE; LDPE; LLDPE; MDPE	PP; PET, PETG, PS, PLA (all with a density >1g/cm <sup>3</sup> ); Removable aluminium fasteners	Non-PO and/or foams with density <1g/cm <sup>3</sup> ; Aluminium; Metal; Foiled paper; PVC
Labels	Labels in HDPE, LDPE, LLDPE, MDPE (all with density <1 g/cm <sup>2</sup> ), which do not hinder* the recognition of the underlying PE-polymer.  * indication label size on containers > 500 ml: < 70% coverage * indication label size on containers ≤ 500 ml: < 50% coverage	Labels in PP (with density <1 g/cm <sup>2</sup> ), with a size that does not hinder* the recognition of the underlying PE-polymer; Labels in PET, PETG, PS, PLA (all with density >1 g/cm <sup>2</sup> ) which do not hinder* the recognition of the underlying PE-polymer. Labels in Paper without fibreless which do not hinder* the recognition of the underlying PE-polymer PO-foamed labels*  * Indication sleevesize on containers > 500 ml: < 70% coverage * Indication sleevesize on containers ≤ 500 ml: < 50% coverage	Labels that hinder the recognition of the PE; Paper labels with fibreless during recycling process Metalised labels Non-PO foamed labels PVC
Sleeves	Sleeves in HDPE; LDPE; LLDPE; MDPE (all with density <1 g/cm <sup>2</sup> ), which do not hinder* the recognition of the underlying PE-polymer  * Indication sleevesize of bottles > 500 ml: < 70% coverage * Indication sleevesize of bottles ≤ 500 ml: < 50% coverage	Sleeves in PP (with density <1 g/cm <sup>2</sup> ), with a size that does not hinder* the recognition of the underlying PE-polymer;  Sleeves in PET, PETG, PS, PLA (all with density >1 g/cm <sup>2</sup> ) which do not hinder* the recognition of the underlying PE-polymer.  * Indication sleevesize of bottles > 500 ml: < 70% coverage * Indication sleevesize of bottles ≤ 500 ml: < 50% coverage	Sleeves that hinder the recognition of the PE; Sleeves in non PO-materials with density <1 g/cm <sup>2</sup> ; Aluminium; Metalised Sleeves; Heavily inked sleeves; PVC.
Adhesives for labels	Water soluble or water releasable adhesive (@ less than 40°C)	Pressure sensitive labels	Non water soluble or non water releasable adhesives
Inks	Non toxic following the EuPIA Guidelines		Inks that bleed; Toxic or hazardous inks.
Direct Printing	Laser marked; Production or best-before date.		Any other direct printing
Other Components	HDPE, LDPE, LLDPE, MDPE	PP; PET; PETG; PS; PLA all with density >1 g/cm <sup>3</sup> .	Aluminium; PVC; Glass components; Foams with density < 1 g/cm <sup>3</sup>

Last update - July 2020

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