Natural PP Flexible Films for Household and Commercial Packaging

	CATEGORY	FULL COMPATIBILITY	LIMITED COMPATIBILITY	NON COMPATIBILITY
	Material Composition (total amount of PP & PE attachments in the packaging)	A ≥ 95 %, B ≥ 80 %	C ≥ 70 %	Non-recyclable < 70 %
	Description (Testing 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 PP 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 PP recycling	Materials that failed the testing protocols OR materials that have not been tested (yet), but pose a high risk of interfering with PP recycling
	Description (Methodology)	In case of at least one limited compatibility one penalty is applied, lowering the recyclability class from A to B or from B to C	In case of at least one limited compatibility one penalty is applied, lowering the recyclability class from C to non-recyclable	Non-recyclable
MAIN BODY	**Materials****	Oriented and non-oriented PP (including PP-plastomers)	Multilayer PP/PE with PE ≤ 10 %	Any other polymer (ex. PET, PVC, etc.)
MAIN BODY	**Colours**	Unpigmented; transparent	Light colours; translucent colours	Dark colours; black; carbon black
MAIN BODY	**Size**	Packaging surface > 100 cm^2	Packaging surface between 30 and 100 cm^2 (Sorting test)	Packaging surface ≤ 30 cm^2
MAIN BODY	**Product Residues (Easy-to-Empty Index)**	A if the index is ≤ 5 %; B if the index is ≤ 10 %	C if the index is ≤ 15 %	Index is ≥ 15 %
MAIN BODY	**Barriers**	SiOx and AlOx without additional coatings	≤ 5 % EVOH (in polyolefinic combination film)	> 5 % EVOH (in polyolefinic combination film); Barrier layer PVC, PVDC, PA; AlOx coating with PVOH primer; any other barrier layer; metallisation; aluminium
MAIN BODY	**Additives**	Additives that do not increase the density higher than 0,97 g/cm^3		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 ($CaCO_3$, talc, glass fibers, etc.)
MAIN BODY	**Laminating Adhesives**	Aliphatic polyurethanes ≤ 2.3 %; Laminating adhesives approved as fully compatible by RecyClass; To be tested if in combination with a barrier material other than EVOH	Aliphatic polyurethanes between 2.3 % and 4.5 %; Water-based acrylics ≤ 2.5 %; Laminating adhesives approved as limited compatible by RecyClass; To be tested if in combination with a barrier material other than EVOH	Aliphatic polyurethanes > 4.5 %; Water-based acrylics > 2.5 %; Aromatic polyurethanes; Laminating adhesives specially developed for high thermal applications above boiling and/or for high chemical resistance (to be tested); 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
ATTACHMENTS	**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
ATTACHMENTS	**Other Components**	PP (including PP-plastomers)	PE	Metal, aluminium, PVC, PET, PETG, PS, PLA, paper, foams with density ≤ 1 g/cm^3
DECORATION	**Facestock Label Materials**	PP	PE	Metallized labels, any other; paper labels
DECORATION	**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
DECORATION	**Inks, Cold Seals & Lacquers**	Non-bleeding (Retentive)*** inks compliant with EuPIA Exclusion Policy; PU-based inks; PVB-based inks; PA-based inks Printed production or expiry date	Mandatory information (product name, ingredients, barcode, etc.) or inks ≤ 0.25 %; Natural rubber & acrylic cold seals ≤ 6.7 %; PA-based lacquers ≤ 5.2 %	Bleeding inks; Inks non-compliant with EuPIA Exclusion Policy; PVC co- and terpolymer binders; Any other chlorinated binders; NC-binders; Inks > 0.25 %
DECORATION	**Other Decorative Technologies**	Laser marking for production or expiry date	Laser marking with coverage ≤ 30 %	

Disclaimer: Use of recycled content does not impact the recyclability assessment.
*Approved technologies can be found here.
**Polymer resin can be either fossil- or bio-based, virgin or recycled.
***Non-bleeding (retentive) inks behavior can be evaluated using RecyClass Quick Test Procedure for Bleeding Inks applied on PE & PP Films.

Last updated: March 2026