Coloured PP Flexible Films for Household and Commercial Packaging

		FULL COMPATIBILITY	LIMITED COMPATIBILITY	NON-COMPATIBILITY
	MATERIAL COMPOSITION (TOTAL AMOUNT OF **PP** & AMOUNT OF **PE ATTACHMENTS** IN THE PACKAGING)	A >= 95%, B >= 80% and all packaging features are FULLY compatible with recycling	C >= 70% and all packaging features are FULLY compatible with recycling	Non-recyclable < 70% and all packaging features are FULLY compatible with recycling
	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 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	MATERIAL*	Oriented and non-oriented PP (including PP-plastomers)	Multilayer PP/PE with PE <= 10 %	Any other polymer (ex. PET, PVC, etc.)
MAIN BODY	COLOURS	Light colours; translucent colours	NIR-detectable dark colours (Sorting test)	Non NIR-detectable dark colours
MAIN BODY	SIZE	Packaging surface > 100 cm²	Packaging surface between 30 and 100 cm² (sorting test)	Packaging surface < 30 cm²
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	BARRIER	SiOx and AlOx without additional coatings	<= 5 % EVOH (in polyolefinic combination film); Metallisation	>5 % EVOH (in polyolefinic combination film); Barrier layer PVC, PVDC, PA; Any other barrier layer; aluminium
MAIN BODY	ADDITIVES	Additives that do not increase the density higher than 0,97 g/cm³	PBT Voiding Agent <5%	Bio-/oxo-/photodegradable additives; foaming agents used as expandant chemical agents; Additives that do increase the density higher than 0,97 g/cm³ (CaCO3, talc, glass fibers, etc.)
MAIN BODY	LAMINATING ADHESIVES	Polyurethanes <= 3 %; Water-based acrylics <= 2.5 % Laminating adhesives approved as fully compatible by RecyClass; To be tested if in combination with other barrier material than metallisation and EVOH	Polyurethanes between 3 and 4.5 %; Laminating adhesives approved as limited compatible by RecyClass; To be tested if in combination with other barrier material than metallisation and EVOH	Polyurethanes > 4.5 %; Acrylics > 3 %; 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 SYSTEM	PP (including PP-plastomers)	PE	Metal, aluminium, PVC, PET, PETG, PS, PLA, non PO or foams with density < 1 g/cm³
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/cm³
ATTACHMENTS	OTHER COMPONENTS	PP (including PP-plastomers)	PE	Metal, aluminium, PVC, PET, PETG, PS, PLA, paper, foams with density < 1 g/cm³
DECORATION	FACESTOCK LABEL MATERIAL	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**	PU-based inks (with no NC); Inks & varnish < 5 %; Retentive inks compliant with EuPIA Exclusion Policy;	< 0.8 % of NC-binder**; Inks & varnish 5 - 7 %	> 0.8 % of NC-binder; Inks & varnish > 7 %; Bleeding inks; Inks non-compliant with EuPIA Exclusion Policy; PVC co- and terpolymer binders; Any other chlorinated binders
DECORATION	OTHER DECORATIVE TECHNOLOGIES	Laser marking with coverage < 50 %***	Laser marking with coverage > 50 %***	

RECYCLED CONTENT: No change in the recyclability assessment. A separate 'Recycled Plastics Traceability Certification' based on a Chain of Custody approach is available with RecyClass

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

**Nitrocellulose (NC) based inks impact on recyclability is under investigation by RecyClass.

*** Temporary solution

**** Approved technologies can be found here

Last update: July 2025

RecyClass
Avenue de Broqueville 12
1150 Brussels, Brussels

Phone: +32 2 786 39 08
info@recyclass.eu
www.recyclass.eu