# Coloured PE Flexible Films for Household and Commercial Packaging

| | | YES - FULL COMPATIBILITY | CONDITIONAL - LIMITED COMPATIBILITY | NO - LOW COMPATIBILITY |
|---|---|---|---|---|
| | | A - B | B - C | D - E - F |
| | DESCRIPTION | **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 PE 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 PE recycling** | **Materials that failed the testing protocols OR materials that have not been tested (yet), but pose a high risk of interfering with PE recycling** |
| MAIN BODY | MATERIAL | **PE-LD, PE-LLD; PE-HD** | **Multilayer PE/PP with PP < 5%** | **Multilayer PE/PP with PP > 5%; Any other polymer (e.g. PET, PVC, etc.)** |
| MAIN BODY | MATERIAL COMPOSITION | **A when PE content is > 95%; B when PE content is > 90%** | **C when PE content is > 70%** | **D when PE content is > 50%; E when PE content is > 30%; F when PE content is < 30%** |
| MAIN BODY | COLOURS | **Light colours; translucent colours** | **NIR-detectable dark colours (Sorting test)** | **Non NIR-detectable dark colours** |
| MAIN BODY | SIZE | **> A4 or > 50 x 50 mm once compacted** | **< A4 format or between 20 x 20 and 50 x 50 mm once compacted (Sorting test)** | **< 20 x 20 mm** |
| 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%** | **D if the index is < 20%; E < if the index is < 25%; F if the index is > 25%** |
| MAIN BODY | BARRIER | **Barrier in the polymer matrix; SiOx and AlOx without additional coatings** | **< 5% EVOH (in polyolefinic combination film); metallized layers without coatings; EcoLam High Plus; VO+ LLDPE; <15% PA 6/66 copolymer with melting temperature < 192 °C and incorporating > 10% PE-g-MAH tie layers** | **> 5% EVOH (in polyolefinic combination film); Any other PA; barrier layer PVC, PVDC; any other barrier layer; foaming agents used as expanding chemical agents; aluminium** |
| MAIN BODY | ADDITIVES | **Additives that do not increase the density higher than 0,97 g/cm³** | | **Bio-/oxo-/photodegradable additives Additives that do increase the density higher than 0,97 g/cm³ (CaCO3, talc, glass fibers, etc.)** |
| ATTACHMENTS | CLOSURE SYSTEM | **PE-LD, PE-LLD, PE-HD** | **PP** | **Metal, aluminium, PVC, PET, PETG, PS, PLA, non PO or foams with density < 1 g/cm³** |
| ATTACHMENTS | LINERS, SEALS AND VALVES | **PE-LD, PE-LLD, PE-HD** | **PP, removable aluminium lidding** | **Metal, aluminium, PVC, PET, PETG, PS, PLA, foiled paper, non PO or foams with density < 1 g/cm³** |
| ATTACHMENTS | OTHER COMPONENTS | **PE-LD, PE-LLD, PE-HD** | **PP** | **Metal, aluminium, PVC, PET, PETG, PS, PLA, paper, foams with density < 1 g/cm³** |
| DECORATION | INKS | **Non-toxic (according to EUPIA guidelines)** | | **Inks that bleed; Toxic or hazardous inks** |
| DECORATION | LABELS | **PE** | **PP, paper labels without fiberloss** | **Metallized labels, any other; paper labels with fibreloss** |
| DECORATION | ADHESIVES FOR LABELS | **Water soluble or water-releasable at less than 60°C** | | **Adhesives non-soluble in water or non-releasable in water at less than 60°C** |
| DECORATION | DIRECT PRINTING | **Laser marked print; Printed production or expiry date; printing covering < 50%**** | **Printing covering > 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

* Class ranking resulting from 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.
** Temporary solution

*Last update: June 2021*

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