

Design For Recycling

GUIDELINES for packaging

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

**Temporary solution

*** Temporary solution. New recommendations will be given when test campaign is completed.

Material:

- PET-bottles
- PET-trays
- PP rigids
- **PP flexibles** Coloured
- PE rigids
- PE flexibles
- PS
- Paper & cardboard
- Beverage cartons
- Glass
- Steel
- Aluminium



| | Class A-B Full compatibility for reprocessing | Class B-C Limited compatibility for reprocessing | Non-recyclable Low (or no) compatibility for reprocessing | |
|--------------------|--|---|---|---|
| Main body | Main Material* | PP | Multilayer PP/PE with PE ≤10% | Any other polymer (e.g. PET, PVC, etc.) |
| | Material composition | A when PP content is > 95%; B when PE content is > 90% and all packaging features are FULLY compatible with recycling | C when PP content is > 70% and all packaging features are FULLY compatible with recycling | D when PP content is > 50%; E when PP content is > 30%; F when PP content is < 30% |
| | Colours | Light colours; translucent colours | NIR-detectable colours (Sorting test) | Non-NIR detectable dark colours |
| | 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 |
| | 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 index is < 20%; E < if index is 25%; F if index is > 25% |
| | Barrier | SiOx and AlOx without additional coatings | ≤ 5% EVOH (in polyolefinic combination film); Metallization | > 5% EVOH (in polyolefinic combination film); Barrier layer PVC, PVDC, PA; any other barrier layer; foaming agents used as expandant chemical agents; aluminium |
| | Additives | Additives that do not increase the density higher than 0,97 g/cm ³ | PBT Voiding Agent <5% | Bio-/oxo-/photodegradable additives; additives increasing the density > 0,97 g/cm ³ (CaCO ₃ , talc, glass fibers, etc.) |
| Attachments | Laminating Adhesives*** | Laminating adhesives approved as fully compatible by RecyClass; Recycling test required if in combination with a barrier material | Laminating adhesives approved as limited compatible by RecyClass; Recycling test required if in combination with a barrier material | Any other laminating adhesives |
| | Closure Systems | PP | PE | Metal, aluminium, PVC,PET, PETG, PS, PLA, non PO or foams with density < 1 g/cm ³ |
| | Liners, Seals and Valves | PP | PE, removable aluminium lidding | Metal, aluminium, PVC, PET, PETG, PS, PLA, foiled paper, non PO or foams with density < 1 g/cm ³ |
| | Other Attachments | PP | PE | Metal, aluminium, PVC, PET, PETG, PS, PLA, paper, foams with density < 1 g/cm ³ |
| Decoration | Labels | PP | PE | Metallized labels, any other; paper labels |
| | Adhesives | 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 |
| | Inks | Non-bleeding inks compliant with EuPIA Exclusion Policy | | Inks that bleed; Inks non-compliant with EuPIA Exclusion Policy |
| | Direct Printing | Laser marked print; Printed production or expiry date; printing covering < 50%** | Printing covering > 50%** | |