



| CATEGORY | FULL COMPATIBILITY | NOT RECOVERED FROM THE WEEE* | LIMITED COMPATIBILITY | NON COMPATIBILITY |
|--|---|---|---|--|
| Description | Features in this column are preferred solutions, which will be recovered and recycled at industrial scale. They will not disturb the recycling process, guaranteeing the best recyclability and quality of recycled material. | Features in this category are currently not recovered in industrial-scale recycling plants, as they are not equipped to recover and recycle polymers with densities above 1.09 g/cm ³ /1.12 g/cm ³ . Foams and films, which are separated via suction systems, are also included. | Elements in this column are not preferred but can be tolerated in the recycling stream. Their presence might affect the quality of the recycled material or lead to material losses during recycling. | This column classifies detrimental and disqualifying features that should be avoided when designing plastic parts for EEE, as these strongly impact the recycling process and/or the quality of the recyclates. |
| Internal Components | Food grade approved: ABS PS HIPS | | Non food grade ABS, PS, HIPS PE, PP, PP filled with a density below 1.09 g/cm ³ SAN, ASA, ABS-ASA, PC-ASA, PC-ABS as they are ending up in the styrenic bath with difficulty of separation during the flotation step (To be tested) | Multilayer structures of different polymers Blends that are not compatible with recycling Thermosets with or without fillers Foamed polymers whose density results in contamination of existing recycling streams Biodegradable Polymers |
| Exterior Components | Food grade approved: ABS PS HIPS | | PE, PP, PP filled with a density below 1.09 g/cm ³ SAN, ASA, ABS-ASA, PC-ASA, as they are ending up in the styrenic bath with difficulty of separation during the flotation step (To be tested) | Multilayer structures of different polymers Blends that are not compatible with recycling Thermosets with or without fillers Foamed polymers whose density results in contamination of existing recycling streams Biodegradable Polymers |
| Functional components | ABS PE PP PP filled with density below 1.09 g/cm ³ PS HIPS PC-ABS | If it is not possible to use one of the commonly recycled polymers for technical reasons, use polymers with a density higher than 1.09 g/cm ³ | | Multilayer structures of different polymers Blends that are not compatible with recycling Thermosets with or without fillers Foamed polymers whose density results in contamination of existing recycling streams Biodegradable Polymers |
| Sealings | | Sealings with density higher than 1.13 g/cm ³ | Non-vulcanised TPE (to be tested) | Vulcanised or crosslinked TPE |
| Foams | | Easy to separate PU foams; XPS; EPS | | Vacuum Insulated Panel Non-separable foams |
| Components removed during depollution phase | | Plastic parts contained or attached to these components do not enter the plastic recycling stream. Capacitors; Mercury-containing components Lamps; Tray glass; External cable plastic parts | | |
| Components removed via dismantling | | | | |
| Additives and fillers | Additives and fillers that will not change the density outside of the desired range for the selected polymer Additives needed for processability that will not hinder recyclability Additives and fillers approved by the RecyClass A & EEE Technical Committee | | | Biobased fibers Bio-/oxo-/photodegradable additives |
| Flame Retardants | | Components containing flame retardants with a clear density above 1.13 g/cm ³ or a marker, making them easy to identify, track and remove | | Any flame-retardant typology, leading to compound densities below 1.13 g/cm ³ ; Brominated, chlorinated, fluorinated or phosphate flame-retardants |
| Coatings | | | | Non removable or not tested coatings |
| Impact Modifiers | PDE up to 10 wt% in PP or PE EPDM (non-crosslinked), up to 10 wt% in PP or PE TPS up to 10 wt% in PP TPS up to 5 wt% in PE Other impact modifiers approved by the RecyClass A & EEE Technical Committee | | PDE above 10 wt% in PP or PE (to be tested) EPDM (non-crosslinked), above 10 wt% in PP or PE (to be tested) TPS between 5 and 10 wt% in PE TPS above 10 wt% in PP (to be tested) Other impact modifiers approved by the RecyClass A & EEE Technical Committee | Any other impact modifiers (to be tested) |
| Compatibilizers for Polymer Blends | Compatibilizers for polymer blends approved by the RecyClass A & EEE Technical Committee | | | |
| Paints | Paints removable after grinding and washing, at least 90 % | | Paint removable after grinding and washing, at least 60 % | Paint removable after grinding and washing below 60 % |
| Colours | White and natural components | | Coloured and dark coloured components | |
| ISO 1043 | Embedded coding on each component | | | |

*WEEE stands for waste electrical and electronic equipment.
Polymer resin can be either fossil or bio-based, virgin or recycled.
Approved technologies can be found [here](#).