



Content:

- ICAs plastic goal
- ICA's packaging strategy
- Packaging fees & RecyClass
- Plastic Recycling in Sweden
- Material proposals for flexible packaging
- Material proposals for rigid packaging



ICAs Plastic Goal

Year

...all private label consumer plastic packaging is recyclable into new materials



ICA's goals are aligned with global initiatives



Contribute to the UN sustainable Development Goals

To contribute to the UN goals of limiting temperature, the ICA Group has, for a long time, been working with science-based climate goals. Between 2006 and 2020, climate emissions in our own operations (shops, pharmacies, warehouses, and offices) were reduced by 76%.



Contribute to EU's goals

We work in accordance with EU's waste directive, where we, for example, make sure to eliminate packaging materials that go to incineration, and ensure that they instead go to material recycling. We also follow EU's recycling targets that apply to different types of materials.





The Golden Rules

Remove Remove Is packaging Minimize excessive unnecessary needed? elements air Waste as a Recycling for a Cirkular Economy Mono material resource resource Easy to Easy to Easy to open identify for Make it Easier for our Customers separate and empty sorting components



Holistic Approach

The whole valuechain

Product wast

Secondary and tertiary packaging





Swedish Packaging Fees

- Näringslivets Producentansvar (short NPA) is the producer responsibility organization which ICA is connected to.
- NPA sets the packaging fees & critera for recycling based on
 - Demand on the market, cost of collecting and sorting
 - Sorting possibilities at Swedish Plastic Recycling, Site Zero.
 - Design4Recycling guidelines from RecyClass
 - Guidelines from the Swedish Environmental Protection Agency
- NPA provides recycling guidelines
 - Recommendations in the guidelines might be picked up as criteria in future updates

Packaging fees — Private use				
Item no.	Item	Fee 2024 SEK/kg	Material recycling	
3110	Paper packaging compatible with material recycling	3,90	✓	
3150	Paper packaging partially or not compatible with material recycling	5,40	√ ×	
4110	Plastic packaging compatible with material recycling	7,60	✓	
4130	Plastic packaging partially compatible with material recycling	9,70	✓	
4150	Plastic packaging not compatible with material recycling	11,00	×	







ICA pays a packaging fee for all imported packagning material

- Collecting packaging information to be able to report to NPA
- The report covers:
 - Only consumer
 - All packaging components
 - All packaging types: Plastic, paper, metal, glass, textile and wood.
- All exporting suppliers, please provide us with new packaging information when updating material!



MATERIAL PROPOSALS



Material Proposals: Table of Content

- The new materials needs to be tested
- Classification of materials
- Artworks from ICA
- Prints and colors
- Flexible packaging
- Rigid packaging



Flexible Packaging

- Barriers and adhesives in flexible PE and PP films
- Print on flexible packaging
- 1. Pouches
 - 1. Pillow bag
 - 2. Gusset bag
 - 3. Doy pack
- 2. Thermoformed trays
 - 1. Ridged
 - 2. Flexible

Rigid Packaging

- 3. <u>Pre-made trays</u>
- 4. Cups
 - 1. <u>Injection moulded</u>
 - 2. <u>Thermoformed</u>
- 5. <u>Tubes</u>
- 6. Blow moulded bottles & jars



















The New Materials Needs to be Tested

When changing from a traditional plastic packaging to a recyclable mono packaging, tests needs to be done in production to ensure product safety and minimizing food waste. It is the suppliers responsibility to arrange and evaluate the proper tests for every specific product.

Examples of tests:

- Shelf life test. This should always be done before launching a new packaging material.
- UV test. A typical PET-based laminate gives the product a natural protection against UV light. Hence, a change to a mono material in PE or PP can lead to miscoloured products. It is therefore recommended to carry out a UV test (light exposure test) for sensitive products like cured ham.
- Transportation or handling test. PE and PP has a lower puncture resistance than some of the traditional components in multi laminates (PET or PA). It is therefore good to execute a transportation or handling test before launching a mono packaging.
- Upscaling and long production runs. To make sure that the material runs well during continuous production, longer test runs are always recommended.



Classification of Materials

- Green level: Materials that are fully compatible with material recycling. These material will get the lowest packaging fee in Sweden.
- Yellow level: Materials that have limited compatibility with material recycling. These materials will get the medium packaging fee in Sweden.
- Red level: Materials that are not compatible with recycling. These materials will get the highest packaging fee in Sweden.

Although our goal is to use materials that are suitable for recycling today (green level), we acknowledge that technically it is a very ambitious target for some products. Therefore, we are settling for the next best option (yellow level) in some of these cases, to ensure we are talking a step in the right direction.

Insterested in learning more?



RecyClass design4recycling guidelines:
Design for Recycling Guidelines – RecyClass



EPR criteria for plastic packaging from NPA (ICA's Producer responsibility organisation): NPA-Fee-criteria-plastic-packaging-for-private-use-v2.0.pdf



Artworks from ICA

New ICA artworks:

 All new artworks for plastic packaging will only have 60% print coverage

Protective varnishes, lacquers and noncolored inks

 If there are technical requirements on where to use non-coloured surface coatings. This needs to be communicated to ICA so that the artwork can be adjusted with less ink coverage.







Guidelines for Print & Colors

Colors, print & varnish:

- Color: No dark pigments
- Heat stable inks (up to 240 degrees Celsius) for example PU based inks
 - Avoid NC-based binders for print and varnish
- Use laser marking

Material

- Use transparent material when possible
- Matt structures should be applied by using structured/matt films, not outside varnish.







Rigid & Flexible thermoformed trays. Pouches like flow pack, doy pack, gausset bag

Print on Flexible Packaging



Reverse Print

- The print is protected by the film, no risk for offset or scratching the print
- + Possible to use thermo resistant PU inks, which are better from a recycling point of view.
- Requires the use of adhesive which must fulfil requirements from NPA for green or yellow level



Surface Print

- No need for adhesives (easier to get the lowest packaging fee)
- Might need to use protective varnish, mainly in sealing areas. Same requirements for varnish as for inks (max 60% of outer surface* for green level)
- Requires NC based inks which are not thermo resistant



Barriers and Adhesives in Flexible PE and PP Films

Harmonizing with guidelines for natural film from RecyClass

Flexible PE

Flexible PP

Barrier

- SiOx or AlOx, without any additional coating.
- EVOH ≤ 5,0 wt%.
- Metallisation (needs to be tested by Swedish plastic recycling)
- PA 6/66 copolymer ≤ 15 wt% with a melting temperature <192 C and with at least 10 wt% PE-g-MAH tielayer.
- Aliphatic PU-based adhesive ≤ 2.5 wt%
- Adhesive approved with full compatibility by RecyClass
- To be tested by RecyClass if in combination with other barrier material than EVOH and metallisation.

Adhesive

- PU-based (aliphatic or aromatic) or water-based acrylate adhesive ≤ 5 wt%
- Adhesive approved with limited compatibility by RecyClass.
- To be tested by RecyClass if in combination with other barrier material than EVOH and metallisation
- Laminating adhesive specially developed for high thermal applications above boiling and/or for high chemical resistance.
- Other types of adhesives (e.g., epoxy-based) that have not been tested and approved by RecyClass.

- SiOx or AlOx, without any additional coating.
- EVOH ≤ 5,0 wt%.
- Metallisation (needs to be tested by Swedish Plastic Recycling)

- Aliphatic PU-based adhesive ≤ 2.3%*
- Laminating adhesives approved as fully compatible by RecyClass;
- To be tested by RecyClass if in combination with other barrier material than metallisation
- Aliphatic PU-based adhesive between 2.3% and 4.5%*
- Laminating adhesives approved as limited compatible by RecyClass;
- To be tested by RecyClass if in combination with other barrier material than metallisation
- Laminating adhesive specially developed for high thermal applications above boiling and/or for high chemical resistance.*
- Other types of adhesives (e.g., epoxy-based) that have not been tested and approved by RecyClass.



1.1 Pillow Bag

Packaging:

- Flexible pouch
- HFFS or VFFS
- Permanent seal
- MAP possible
- The pack is made out of one material:
 - Printable
- Typical material structures with barrier:
 - PET/PE-EVOH-PE (laminate) (Red level)
 - OPP/PE-EVOH-PE (laminate) (Red level)
 - OPA/PE (laminate) (Red level)
- Typical material structures without barrier:
 - PET/PE (laminate) (Red level)
 - OPP/PE (laminate) (Red level)
 - OPP (Green level)
 - PE (Green level)



























1.1 Material Proposals: Pillow Bag with Barrier

		Mono PE	Mono PP
Pouch	Outside layer	OPE	OPP
film	Adhesive	Co-extrudedAdh see <u>Slide 19</u>	Co-extrudedAdh see <u>Slide 19</u>
	Barrier	 SiOx AlOx Metallisation* EVOH <5% PA 6/66<15% 	SiOxAlOxMetallisation*EVOH<5%
	Inside film	PE	PP
Total pack		 p≤ 0,97 g/cm3 < 5% fillers PP≤ 5 % Colored film Black film 	 p≤ 0,97 g/cm3 < 5% fillers PE≤ 10 % Colored film Black film

^{*} Must be tested and approved at Swedish Plastic Recyling









Use renewable content where possible.



1.1 b Material Proposals: Pillow Bag without Barrier

		Mono PE	Mono PP
Pouch _	Outside layer	OPE	OPP
film	Adhesive	Co-extrudedAdh see <u>Slide 19</u>	Co-extrudedAdh see <u>Slide 19</u>
	Inside film	PE	PP
Total pack		 ρ≤ 0,97 g/cm3 < 5% fillers PP≤ 5 % Colored film Black film 	 ρ≤ 0,97 g/cm3 < 5% fillers PE≤ 10 % Colored film Black film









Use renewable content where possible.

Note that PP get brittle and tear easy if deep frozen. Do not use for product with high risk of puncturing the packaging.



1.2 Gausset Bag/ Block Bottom / Quattro Seal Pouch

Packaging:

- Flexible pouch
- HFFS or VFFS
- Permanent seal
- MAP possible
- Pre-made bags an option
- The pack is made out of one material:
 - Printable
 - Material needs to be ridged for the pouch to stand up
- Typical material structures:
 - PET/PE (laminate) (Red level)
 - OPP/PE (laminate) (Red level)
 - OPA/PE (laminate) (Red level)



















1.2 Material Proposals: Gausset bag

		Mono PE	Mono PP
Pouch _	Outside layer	OPE	OPP
film	Adhesive	Co-extrudedAdh see <u>Slide 19</u>	Co-extrudedAdh see <u>Slide 19</u>
	Barrier	SiOxAlOxEVOH <5%PA 6/66<15%	• SiOx • AlOx • EVOH<5%
Ш	Inside film	PE	PP
Total pack		 ρ≤ 0,97 g/cm3 < 5% fillers PP≤ 5 % Colored film Black film 	 ρ≤ 0,97 g/cm3 < 5% fillers PE≤ 10 % Colored film Black film





Only use barriers where need!

Use renewable content where possible.



1.3 Doy Pack/Stand Up Pouch

Packaging:

- Flexible pouch
- HFFS
- Permanent seal
- Reclose by Zip, Velcro or Spout
- The pack is made out of one material:
 - Printable
 - Material needs to be ridged for the pouch to stand up
- Typical material structures:
 - PET/PE (laminate) (Red level)
 - OPP/PE (laminate) (Red level)

















1.3 Material Proposals: Doy Pack

		Mono PE	Mono PP
Pouch	Outside layer	OPE	OPP
film	Adhesive	Co-extrudedAdh see <u>Slide 19</u>	Co-extrudedAdh see <u>Slide 19</u>
P	Barrier	 SiOx AlOx Metallisation* EVOH <5% PA 6/66<15% 	SiOxAlOxMetallisation*EVOH<5%
L L	Inside film	PE	PP
Reclose	Zip, Velcro or spout	PE	PP
Total pack		 ρ≤ 0,97 g/cm3 < 5% fillers Transparent film PP≤ 5 % Colored film Black film 	 ρ≤ 0,97 g/cm3 < 5% fillers Transparent film PE≤ 10 % Colored film Black film





Only use barriers where need!

Use renewable content where possible.

Hot filled or heat treated products are recommended to be packed in PP packaging, since PP is more heat resistant.



2.1 Rigid Thermoformed Trays

Packaging:

- Thermoformed rigid tray with flexible lidding film
- MAP
- Peel, reseal or permanent seal
- The pack is made out of two materials:
 - 1. Base web (BW):
 - Flexible
 - Thermoformable
 - 2. Top web (TW):
 - Printable
- Typical material structures:
 - BW: APET/PE/EVOH/PE (High barrier: EVOH) (Red level)
 - TW: OPET / ADH / PE / EVOH / PE (High barrier: EVOH) (Red level)











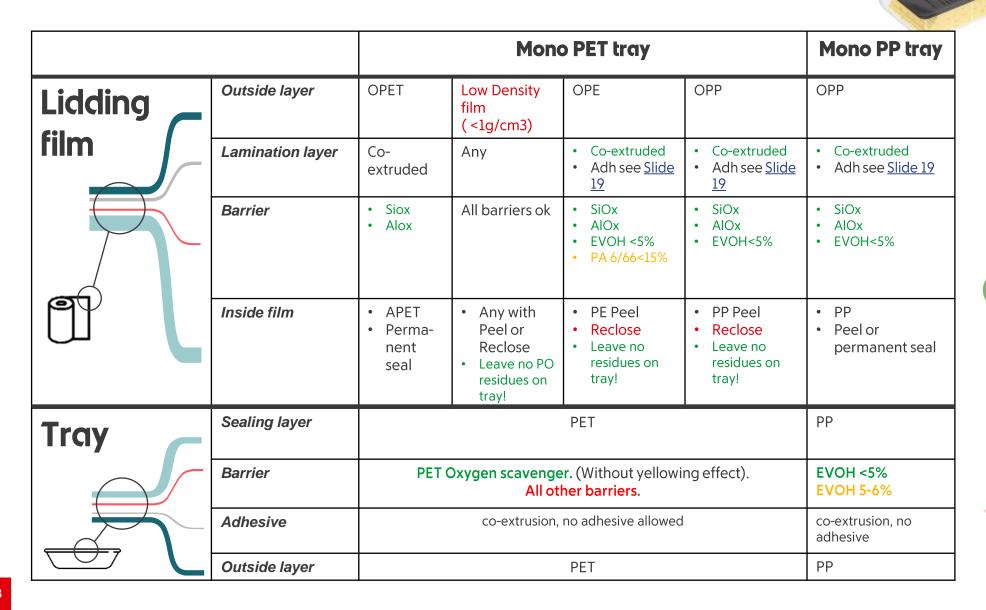








2.1 Material Proposals: Rigid Thermoformed Trays





Use renewable or recyclable content where possible.

More requirements on next side



2.1 Material Requirements: Rigid Thermoformed Trays

PET: Other requirements for green/yellow level:



PET without any fillers.

PET/PE, PETG, C-PET, PET-GAG or expanded PET is **not** allowed.



No print or colour allowed on PET trays. Laser marking and production marking (such as expiration/packaging date or batch number) is allowed.



Any adhesive for labels should be washoffable or soluble in 70°C alkaline water without leaving any adhesive residue on the PET packaging. It is recommended for the label to have a density <1 g/cm³ and Cover <60% of the outer surface of the packaging.



Absorbent mats must be easily separable and leave no residues in the PET packaging, the adhesive shall be washoffable or soluble in 80°C alkaline water and not be reactivated after washing. PE or PP based absorbents are OK and should have a density <1.

PP: Other requirements for green/yellow level:



PP without additives that increase the density < 0,97 g/cm³ and with a filler content (organic or inorganic) max. wt5%.



PE content in PP packaging:



• No PE (green level).





Black colour is not allowed for either tray or lid, recommended to use uncoloured PP.



2.2 Flexible Thermoformed Tray

Packaging:

- Thermoformed flexible tray with flexible lidding film
- Permanent or peelable seal
- MAP or vacuum
- The pack is made out of two materials:
 - 1. Base web (BW):
 - Flexible
 - Thermoformable
 - 2. Top web (TW):
 - Printable
- Typical material structures:
 - BW: PA/PE/EVOH/PE (mulitlaminate) (Red level)
 - TW:
 - OPET/PE/EVOH/PE (mulitlaminate) (Red level)
 - OPA/PE (mulitlaminate) (Red level)









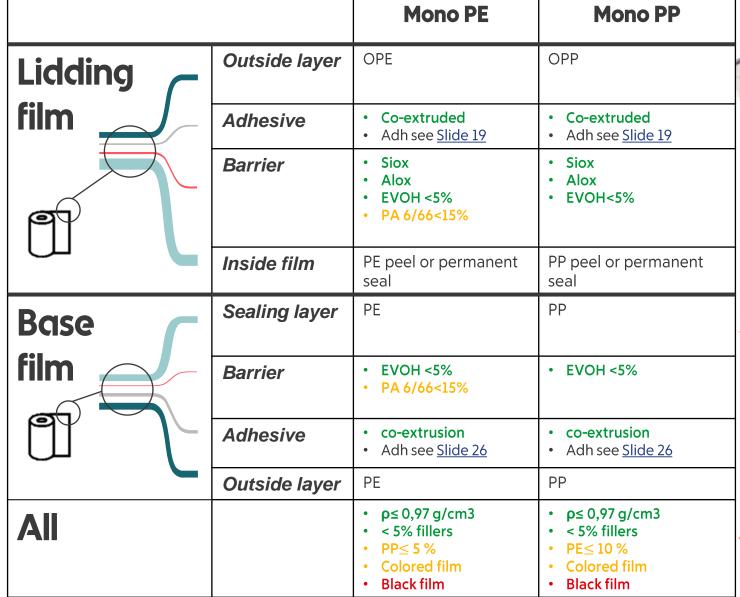








2.2 Material Proposals: Flexible Thermoformed Tray







Use renewable content where possible.

Hot filled of heat treated products are recommended to be packed in PP packaging, since PP is more heat resistant.

If you have a peel function, top and base are considered as two separate components. This requirement is per component.



Rigid Packaging



2.1 Plastic Pre-made Trays

Packaging:

- Pre-made tray with flexible lidding film
- Peel opening or permanent seal
- MAP
- The pack is made out of two materials:
 - 1. Tray:
 - Pre-made
 - 2. Top web (TW):
 - Peel
- Typical material structures:
 - Tray: Mono PET (Green level)
 - TW: OPET / PE / EVOH / PE (Multilaminate) (Red level)

Or

- Tray: Mono PP (Green level)
- TW: OPET/PE/EVOH/PP (Multilaminate) (Red level)









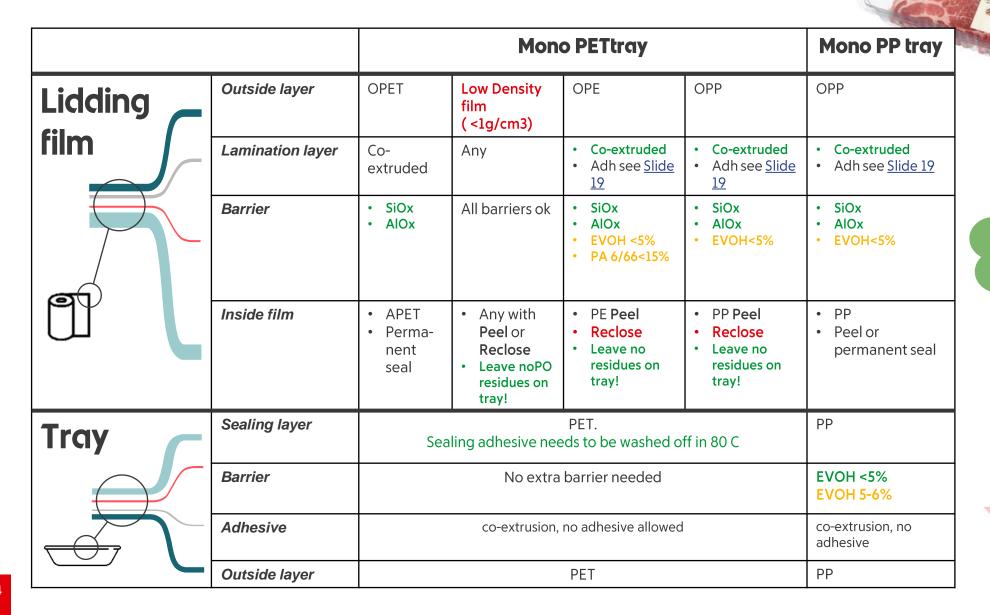








1.1 Material Proposals: Rigid Pre-made Trays





Use renewable or recyclable content where possible.

More requirements on next side



2.1 Material Requirements: Rigid Thermoformed Trays

PET: Other requirements for green/yellow level:



PET without any fillers.

PET/PE, PETG, C-PET, PET-GAG or expanded PET is **not** allowed.



No print or colour allowed on PET trays. Laser marking and production marking (such as expiration/packaging date or batch number) is allowed.



Any adhesive for labels should be washoffable or soluble in 70°C alkaline water without leaving any adhesive residue on the PET packaging. It is recommended for the label to have a density <1 g/cm³ and Cover <60% of the outer surface of the packaging.



Absorbent mats must be easily separable and leave no residues in the PET packaging, the adhesive shall be washoffable or soluble in 80°C alkaline water and not be reactivated after washing. PE or PP based absorbents are OK and should have a density <1.

PP: Other requirements for green/yellow level:



PP without additives that increase the density > 0,97 g/cm³ and with a filler content (organic or inorganic) max. wt5%.



PE content in PP packaging:
• No PE (green level).



• PE<10% is allowed in the top film (yellow level)



Black colour is not allowed for either tray or lid, recommended to use uncoloured PP.



4.1 Injection Moulded Cups

Packaging:

- Rigid
- Permanent sealed lid, no lidding film
- Hot or cold filled
- With or without barrier
- Print on IML lable
- Lid and cup often same material
- Typical material structures:
 - PE (Green level)
 - PP (Green level)













4.1 Material Proposals: Injection Moulded Cups

		Mono PE	Mono PP
Lid &	Outside layer	PE	PP
IML	Barrier	 EVOH <5% with PE-g-MAH tielayer EVOH 5-6% with PE-g-MAH tielayer 	 EVOH <5% with PP-g-MAH tielayer EVOH 5-6% with PP-g-MAH tielayer
	Inside layer	PE	PP
Cup &	Outside layer	PE	PP
IML	Barrier	 EVOH <5% with PE-g-MAH tielayer EVOH 5-6% with PE-g-MAH tielayer 	 EVOH <5% with <p>PP-g-MAH tielayer </p> EVOH 5-6% with PP-g-MAH tielayer
	Inside layer	PE	PP
All		 ρ≤ 0,97 g/cm3 ≤ 5% fillers Black MB color 	 ρ≤ 0,97 g/cm3 ≤ 5% fillers Black MB color







Only use barriers where need!

Use renewable content where possible.



1.1 Rigid Thermoformed Cups

Packaging:

- Rigid
- Sealed with lidding film and thermoformed lid
- Hot or cold filled
- With or without barrier
- Print on cup and lidding film
- Typical material structures:
 - Cup: PS or PP (Green level)
 - Lidding films:
 - Metal (Green level)
 - PET/PE-EVOH-PE (Red level)
 - Lid: PET (Green level)











1.1 Material Proposals: Rigid Thermoformed Cups

		PP Cup	PE Cup	PS Cup
Lid		PP ρ≤ 0,97 g/cm3	PE ρ ≤ 0,97 g/cm3	PS ρ= 1-1,07 g/cm3
Тор	Outside layer	OPP	OPE	Use PE or PP based films or metallic film
film	Lamination layer	Co-extrudedAdh see <u>Slide 19</u>	Co-extrudedAdh see <u>Slide 19</u>	
	Barrier	• SiOx • AlOx • EVOH<5%	 SiOx AlOx EVOH <5% PA 6/66<15% 	
	Inside film	PP Peel or permanent seal	PE Peel or permanent seal	
Cup	Sealing layer	PP ρ≤ 0,97 g/cm3	PE ρ ≤ 0,97 g/cm3	PS ρ= 1-1,07 g/cm3
	Barrier	 EVOH <5% w. PP-g-MAH tielayer EVOH 5-6% w.PP-g-MAH tielayer 	 EVOH <5% w. PE-g-MAH tielayer EVOH 5-6% w. PE-g-MAH tielayer 	• EVOH
	Outside layer	PP ρ≤ 0,97 g/cm3	PE p ≤ 0,97 g/cm3	PS ρ= 1-1,07 g/cm3





Only use barriers where need!

Use renewable content where possible.

More requirements on next side



1.1 Material Requirements: Rigid Thermoformed Cups

PE and PP:

Other requirements for green/yellow level:



Filler content (organic or inorganic) max. wt5%.

PP content in PE packaging:

- Cup/Lid. No PP (green level).
- Film: PP≤ 5% is allowed (yellow level)

PE content in PP Cup/Lid/Film:

- Cup/lid: No PE (green level).
- Film: PE≤10% is allowed (yellow level)

Black colour is not allowed for either tray or lid, recommended to use uncoloured PP.

PS:

Other requirements for green/yellow level:



Filler content(organic or inorganic) max. wt5%.

Black colour is not allowed for the cup. Uncolored or white pigment (green level), other colors (yellow level).



No other print than laser marking and production marking (such as expiration/packaging date or batch number) is allowed (green level),

Print <60% (yellow level).



5. Tubes

Packaging:

- Rigid
- Head, shoulder and sleeve sealed together
- Cap: Screwed or snap on
- Hot or cold filled
- With or without barrier
- Print on sleeve
- Typical material structures:
 - Tube: PE or PP (Green level)
 - Cap: PE or PP (Green level)





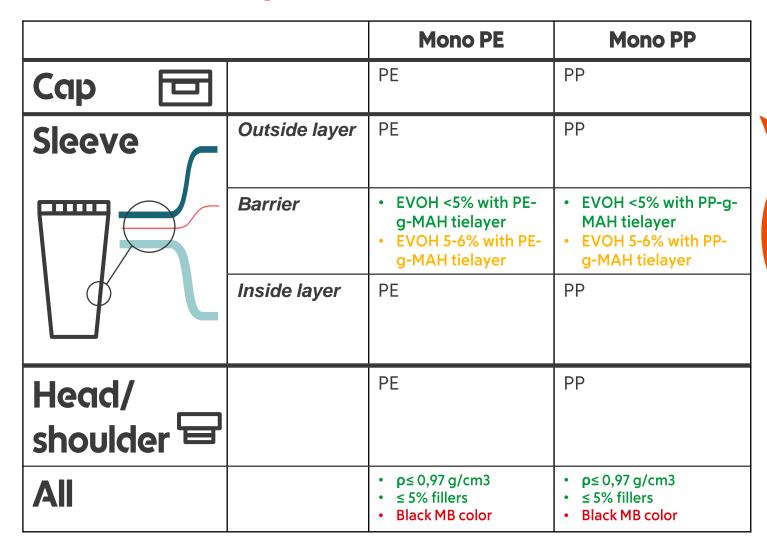








5. Material Proposals: Tubes



Only use barriers where need!

If different material in cap and sleeve: cap should be easy and intuitive to separate from tube.





Use renewable content where possible.

Requirements for adhesive lamination will be added in 2025, please check RecyClass guidelines.



Blow Moulded Bottles and Jars

Packaging:

- Rigid
- Cap: Screwed or snap on
- Hot or cold filled
- With or without barrier
- Print on sleeve or glued label
- Typical material structures:
 - PP (Green level)
 - PE (Green level)
 - PET (Green level)
 - Cap: PE or PP (Green level)















6. Material Proposals: Blow Moulded Bottles and Jars

		Mono PE	Mono PP	Mono PET
Cap or Lid	Material	PE • ρ≤ 0,97 g/cm3 • ≤ 5% fillers • Black MB color	PP • ρ≤ 0,97 g/cm3 • ≤ 5% fillers • Black MB color	PP or PE, • ≤ 5% fillers • Easy and intuitive to remove
Shrink sleeve	Material	 PE Other material than PE & covers less than 60% of the packaging's outer surface 	 PP Other material than PP & covers less than 60% of the packaging's outer surface 	 p≤ 0,97 g/cm3 Covers ≤ 60% of the packaging Covers >60% of the packaging
Bottle or Jar	Material	PE • ρ≤ 0,97 g/cm3 • ≤ 5% fillers • Black MB color	PP • ρ≤ 0,97 g/cm3 • ≤ 5% fillers • Black MB color	 PET Transparent clear or transparent light blue Without fillers
	Barrier	 EVOH <5% with PE-g-MAH tie layer EVOH 5-6% with PE-g-MAH tie layer 	 EVOH <5% with PP-g-MAH tie layer EVOH 5-6% with PP- g-MAH tie layer 	 SiOx plasma coating Oxygen scavenger





Recommended to use a shrink sleeve that is easy to remove!

Use renewable or recyclable content where possible.



1.1 Material Requirements: Blow Moulded Bottles and Jars

PET: Recommendations for glued labels:

- Any adhesive for labels should be washoffable or soluble in 70°C alkaline water without leaving any adhesive residue on the PET packaging.
- The label should have a density <1 g/cm³ and Cover <60% of the outer surface of the packaging.

PP & PE: Recommendations for glued labels:

 Recommended to use the same material as the packaging (PE or PP). The adhesive should be washed off at 60°C



requirement for closed loop PET to PET recycling.

Use PP and PE for Nearfood, this also enables incorporation of recycled content.



Key Take Outs

- Avoid mixing different types of plastics, both within the same component and between different components.
- The critera are very similar regardless of the packaging types. If you are missing your particular packaging you can still follow the guideline for a similar pack as long as you stick to rigid or flexible.
- We are working on a rapidly changing market, and new packaging legislations and guidelines are coming every year. Important to stay updated!
- There are not critera for everything yet but it is still important to take a step in the right direction. Change take time!
- There are both economical and environmental benefits in changing to recyclable packaging. We have to work together to reach our climate goals. Together we can make a change!



Thanks!

In collaboration with PACCAN



Ordförklaring

Använda ord	Beskrivning
Laminate	Förpackningsmaterial i flera skikt. Kan vara mono eller bestå av flera plasttyper. Tex: PET/PE/EVOH/PE
Mono	Förpackningsmaterial som består av en typ av polymer. Kan vara ett laminat.
Co-extruded material	Extruderat material = Material bestående av ett eller flera skikt, där inget lim används. Istället så sammanfogas skikten av en plastsmälta.
Adhesive laminate	Lacklaminat = Material bestående av flera skikt, där ett lim (ofta lösningsmedelbaserat) används för att sammanfoga skikten
Top web	Ovanbana (OB)= ovansida på tråg (mjuk eller rigid) även kallad: överfilm, top lid, toppfilm
Base web	Underbana (UB)= undersida på tråg (mjukt eller rigid) även kallad: underfilm, tråg
Seal	Svets/försegling = Sammanfogar materialen i förpackningen (påse eller tråg). Oftast svetsas förpackningar mha värme
Permanent seal	Fast försegling = Svets som inte går att riva upp. Krävs sax eller kniv för att öppna förpackningen
Peel	Påse/tråg kan öppnas genom att man drar isär materialen
Reclose (tray)	Återförslutning =Tråget får en klistrig kant efter peel-öppning, detta gör den återförslutningsbar (funkar ca 10 ggr). Även kallad: reseal
MAP	Modifierad atmosfär, gas sprutas in i förpackningen för att öka hållbarhet. (kan var tråg eller påse)
Flow pack	Påse = Ofta syftas till enklaste typen av påse, pillow bag, men kan vara alla typer av påsar.
Pillow bag	Kuddpåse = Enklaste typen av påse (tänk chipspåse).
Gusset bag	Ståpåse = Påse med invik i botten så att den kan stå. Även kallad: Block bottom, Quattro seal pouch OBS: ej att förväxla med doypack/stand-up-pouch

Använda ord	Beskrivning
ZIP	Återförslutningstyp i påsar
HFFS	Horisontal form fill seal= Horisontell påsmaskin
VFFS	Vertical form fill seal= Vertikal påsmaskin
Pre-made tray	Tråg som levereras färdigt (staplat i högar) till packaren
Renewable plastic	Förnybar plast = Plast tillverkad av förnybar råvara, ex sockerrör eller tallolja. Är kemiskt identisk med konventionella fossila plaster.



Ordförklaring plaster

Använda ord	Beskrivning
ВОРР	Biaxiellt orienterad polypropen
EPS	Expanderad polystyren
EVOH	Etenvinylalkohol
HDPE	Högdensitetpolyeten
LDPE	Lågdensitetspolyeten
LLDPE	Linjär lågdensitetspolyeten
MDPE	Medium densitetspolyeten
OPP	Orienterad polypropen
PA	Polyamid (Nylon)
PET/PETE	Polyetentereftalat
rPET	Recycled PET
APET	Amorf PET
CPET	Kristallin PET
PETG	Glykolmodifierad PET
PLA	Polylaktid
Polyolefiner/Olefinplast	En grupp vanliga polymerer tex. PP och PE
PP	Polypropen
PS	Polystyren
PVdC	Polyvinylklorid
PVC	Polyvinylklorid
PVOH	Polyvinylalkohol

Använda ord	Beskrivning
AlOx	Aluminium oxide
SiOx	Silicon oxide

