

Explanation **Fee Modulation Plastic Packaging**

Version 1.0 October 2023



Preface

This document has been created to provide clarity on how you are rewarded for making your plastic packaging highly recyclable and using post-consumer recycled content (recyclate).

Stichting Afvalfonds Verpakkingen has, in collaboration with KIDV, spent the greatest care in the creation of this document. Should this document contain any mistakes or incompleteness, we would appreciate that you make note of this. No rights can be derived from this document.

Project team Fee Modulation

TD@afvalfondsverpakkingen.nl

Content

1. **Reduce, reuse, recycle**
2. **Model for Fee Modulation Plastic 2.0**
3. **Design principles**
4. **Preconditions and reward steps**
5. **Explanation preconditions**
 1. Packaging is the basis
 2. Is my packaging rigid or flexible
 3. Conditions
 4. Conditions for material
6. **Reward steps**
 1. Colour
 2. Mono
 3. Labels
 4. Optimal recyclability
 5. Use of post-consumer recycled content
7. **Innovation program**
8. **Administration**

Reduce, Reuse, Recycle

- **Reduce**

Our fees are based on kilograms. The less packaging material, the lower the Packaging Waste Management Fee.

- **Reuse (reusable packaging)**

If you market reusable packaging and declare the amount of reuse, you pay a lower fee for the Packaging Waste Management Fee. This applies to packaging that can be used multiple times, for the same application, and refilled through a return system.

- **Recycle**



To encourage good recycling, we further differentiate fees through rewards for

- Highly **recyclable packaging** and/or
- The use of **post-consumer recycled content**.



Model Fee Modulation

Packaging category

	Type	Material
 Rigid packaging	Bottle / vial / other	PE / PP / PET
 Flexible packaging	Flexible packaging	PE/PP

Innovation program

Discount: packaging features

Characteristics

- Colour** (€ 0,10)
Transparent / white / natural
- Composition** (€ 0,10)
Mono
- Labels** (€ 0,10)
Size and material

Use of post-consumer recycled content

- 10% Contact sensitive (€ 0,10)
- 20% Non-contact sensitive

Recyclability (€ 0,10)
Good recyclable

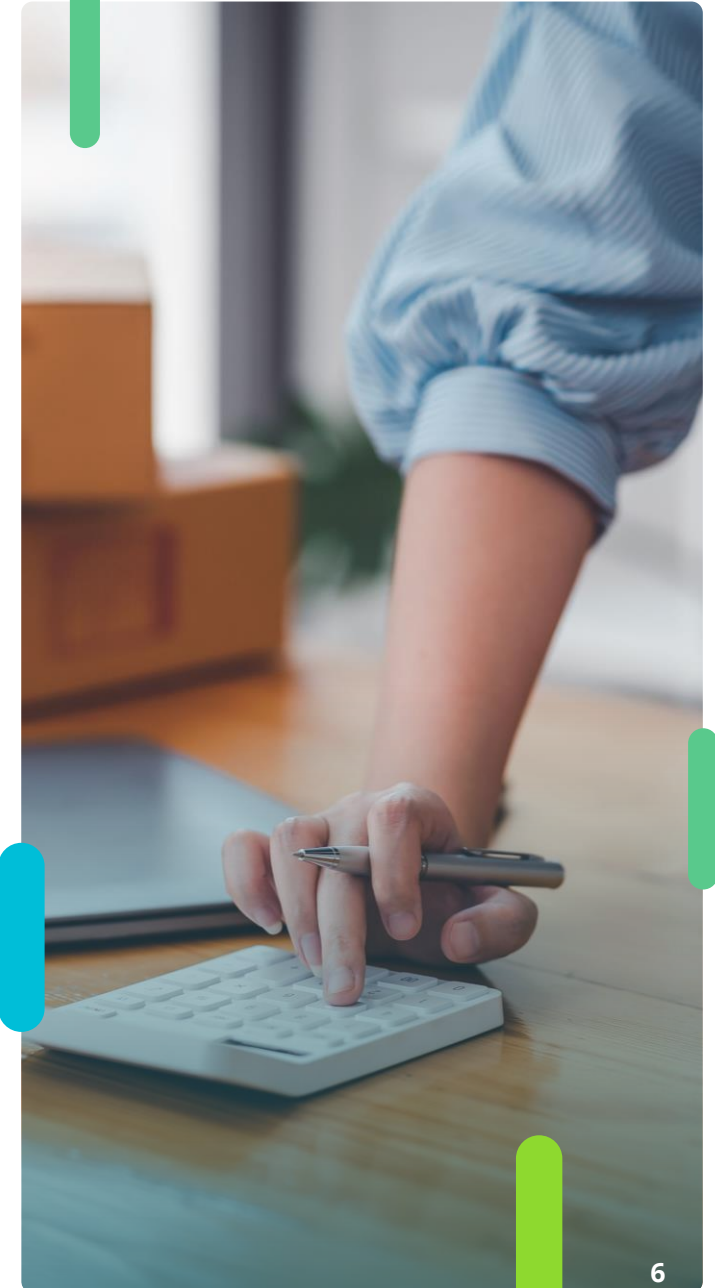
Maximum discount per kilo

€ 0,50

Design principles

Robust, future-oriented system:

- Start with distinguishing the starting rates for **rigid and flexible packaging** to account for the chain costs per main packaging group.
- Encourage making packaging categories (**Rigid PE/PP/PET**) and (**Flexible PE/PP**) optimal recyclable and reward the use of post-consumer recycled content.
- Reward per step: **colour, mono, labels, optimal recyclability and use of post-consumer recycled content.**
- Fee modulation only applies to **plastic material rate** (not applicable to desposit or other rate components or discount schemes).
- Stimulating **innovation program.**
- Pre-sorting for **regulation / Packaging and Packaging Waste Regulation (PPWR).**
- **Evaluation** takes place after the first year.



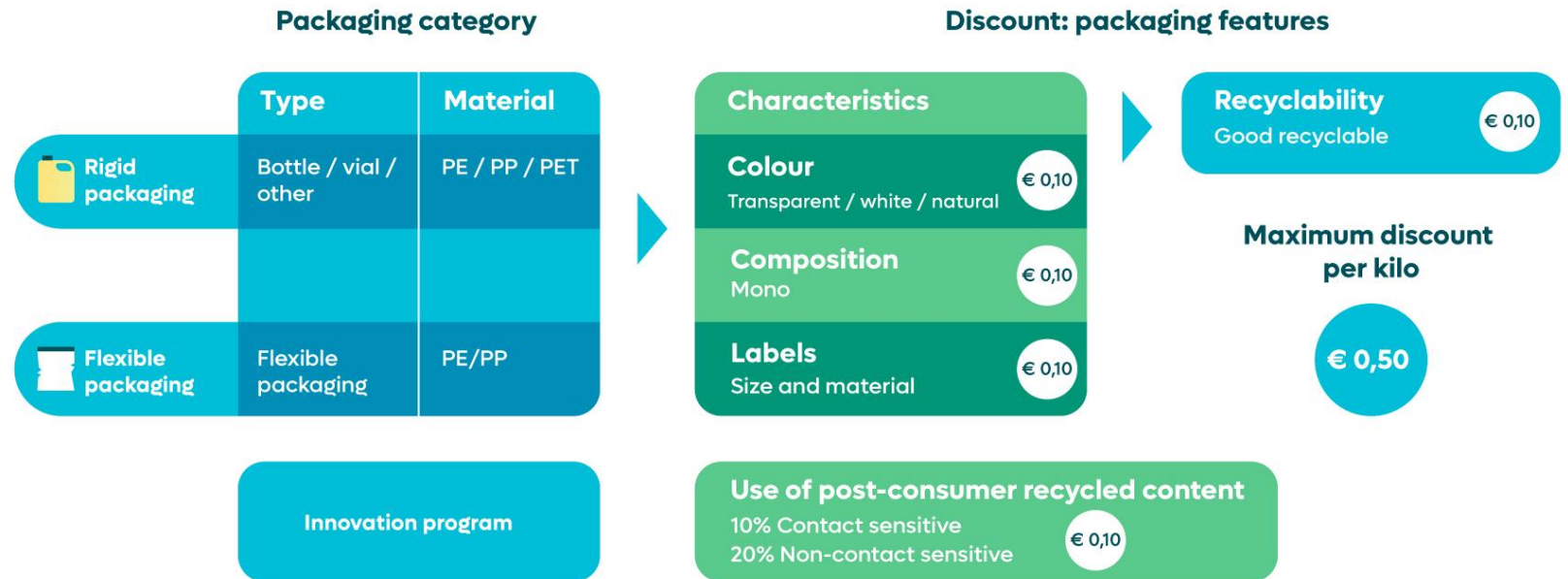
Preconditions and reward steps

Preconditions and definitions

- Breakdown of packaging by material
- Check format
- Check for disrupters
- Determination rigid or flexible

Reward steps

- Packaging characteristics
 - Colour
 - Mono
 - Labels
 - Optimal recyclability
- Use of post-consumer recycled content
- Innovation program



Preconditions and definitions

Packaging is the basis

1. For packaging, all material types of a package (plastic / paper and cardboard / aluminum / other metals / glass / other materials) are reported separately (in kg).
2. Packaging may consist of **one or multiple disposable units***.
3. If a packaging consist of multiple disposable units, then each disposable item will be assessed separately**.
4. Only a packaging where **> 50% of the weight is plastic** may qualify for Fee Modulation.
5. Only a rigid packaging **>3 cm en <5 liter***** may qualify for Fee Modulation.

* Packaging may consist of multiple disposable units, [see background document recyclecheck](#).

** In our communication we use the word packaging. This may involve one or more disposable units.

*** For explanation about size of packaging, [see background document recyclecheck](#).

Is my packaging rigid or flexible?

Examples rigid packaging :



Bottles, vials, trays, blisters, cups, tubes etc.

Examples flexible packaging :



Bags, wraps, pouches, flexible packaging with rigid parts (anything that is not rigid)

Rigid plastic packaging

Definition rigid packaging (or *disposable unit*)

Rigid packaging are stiff. This packaging is not easy to deform or to squash them into a wad.

Characteristics:

- The material of the main component is usually thicker than 250µm*.
- When empty, before it is filled, the packaging usually has the same shape as when filled.

Examples:

Bottles, vials, tubes, trays, cups, trays, blisters and buckets.

** For a main component with a material thickness between 100 and 250 µm, it should be further determined whether it is a rigid or flexible packaging.*

Examples rigid packaging :



Bottles, vials, trays, blisters, cups, tubes etc.

Flexible plastic packaging

Outcome:

All plastic packaging that are not rigid.

Explanation:

A flexible plastic package can be crumpled up easily and without using much force, has little strength when empty and usually cannot stand on its own without its contents.

Characteristics:

The material of the packaging is usually thinner than 100 μ m*.

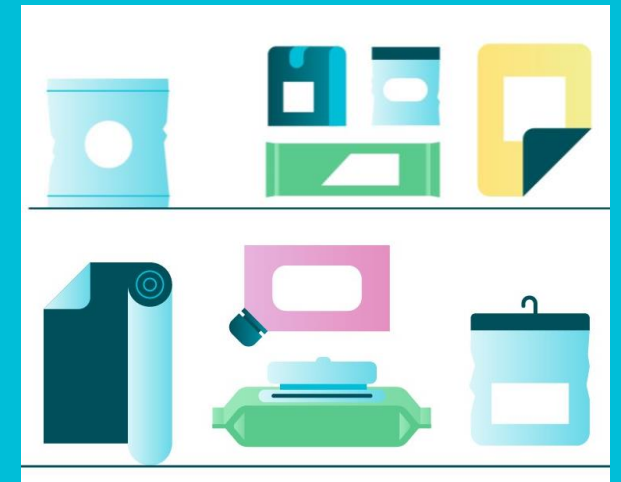
- The packaging is more two-dimensional than three-dimensional.

Examples:

Bags, pouches, foils (anything that is not rigid).

** For a main component with a material thickness between 100 and 250 μ m, it should be further determined whether it is a rigid or flexible package.*

Examples flexible packaging :



Bags, wraps, pouches, flexible packaging with rigid parts (anything that is not rigid)

Conditions

1) Main component is >70% of the weight of the packaging and is made from PET, PE or PP.

- For fee modulation, the main component of the plastic is considered.

2) No restriction for disruptive packaging:

Packaging that contains disrupters do not qualify for Fee Modulation. This relates to the following packaging materials:

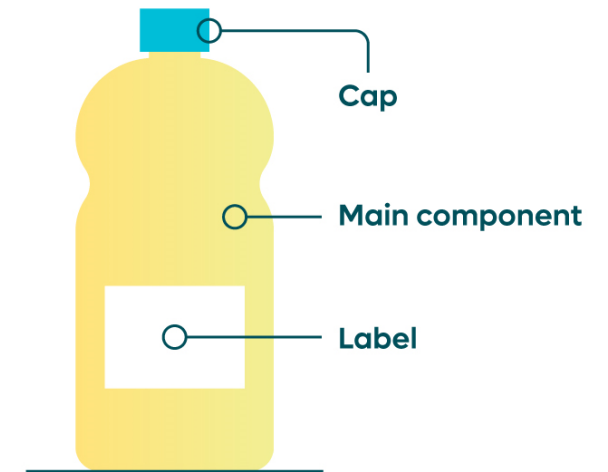
- Oxo-degradable materials
- PVC, PVdC or PETG*
- Rubbery substances such as elastomers and silicone

3) No direct contact with the products:

Packaging that is in direct contact with the following products does not qualify either:

- Paint, glue, silicones
- Cement
- Medicines

** PETG is only deemed as disruptive when used in main component.*



Condition: material

The following types of plastic qualify for Fee Modulation Plastic 2.0.









For rigid packaging:

- **PET** (A-PET)
- **PE** (PE, HDPE, MDPE, LDPE, LLDPE, BOPE)
- **PP** (PP, CPP, BOPP, OPP)

For flexible packaging:

- **PE** (PE, HDPE, MDPE, LDPE, LLDPE, BOPE)
- **PP** (PP, CPP, BOPP, OPP)

- Other materials do not qualify for a discount.

Code	Abbreviation	Abbreviation of
 PET	PET	Polyethylene terephthalate
 PE-HD	HD-PE	High-density polyethylene
 PVC	PVC	Polyvinylchloride
 PE-LD	LD-PE	Low-density polyethylene
 PP	PP	Polypropylene
 PS	PS	Polystyrene
 O	OTHER	
 ABS	ABS	Acrylonitrile butadiene styrene

Reward steps

Colour, mono, labels, optimal recyclability, use of post-consumer recycled content

COLOUR

Colour explanation

Plastic packaging without added dye have more potential applications after recycling than colored variants.

Transparent

- Fully transparent, clear, no dye added (1).
- Light coloured, if demonstrable through the use of recycled content (2).

Naturel

- No dye added; may be slightly hazy/waxy/blurred (3).

White

- Coloured with white dye (4).
- Not opaque*.

* *opaque = coloured and light-impermeable*



Conditions: colour rigid/flexible packaging

Rigid plastic packaging

- PET:
 - Transparent / Naturel
 - Light-coloured, provided the colour is caused by the demonstrable use of recycled content.
- PE/PP:
 - Transparant / Naturel / White
 - Light-coloured, provided the colour is caused by the demonstrable use of recycled content.

Flexible plastic packaging

- PE/PP
 - Transparant / Naturel / White
 - Light-coloured, provided the colour is caused by the demonstrable use of recycled content.

MONO

PE/PP/PET

PET: No layers of other material added
PE of PP: > 95% PE or PP
max 5% additions

Rigid packaging:

- The main component of a mono-material is made from a single type of polymer but is also permitted to consist of multiple layers of the same type of polymer.
- For PE of PP: Additions of EVOH, SiOX, AlOX (including tie layer) are permitted to a maximum of 5%* total.

PE/PP

> 90% PE or PP
max 10% additions

Flexible packaging:

- The main component of a mono-material is made from a single type of polymer but is also permitted to consist of multiple layers of the same type of polymer.
- Additions of EVOH, SiOX, AlOX (including tie layer), metallisation en ink are permitted up to a maximum of 10%* total.

Rigid



Mono

Flexible



Mono

LABELS & SLEEVES

Rigid packaging

Material	Stickers/labels/sleeves are made of PE or PP
Size	<p>No limitation if size: < 50% with packaging < 500 ml < 70% with packaging ≥ 500 ml</p> <p>If size is bigger, then:</p> <ul style="list-style-type: none">• Not black• Not metallised• If material of label ≠ material of main component, then:<ul style="list-style-type: none">• Material is light-permeable• Thickness of the material ≤ 120µm
Printing	<p>Printing solely on sticker, label or sleeve.</p> <p>No direct printing besides date code.</p>



LABELS & SLEEVES

Flexible packaging

Material	Material label = material main component (PE/PP) or PE label on PP packaging
Colour and size	If > 30% of surface of the packaging: <ul style="list-style-type: none">• Not black• Not visibly metallised on the outside
Printing	Direct printing is permitted If the printing covers more than 30% of the surface of the packaging, the printing must not be black.

OPTIMAL RECYCLABILITY

Optimal recyclability:

To be able to qualify for the reward step optimal recyclability, the packaging must meet all [KIDV Recyclecheck](#) requirements and comply with all criteria from “optimal recyclability”.

For rigid packaging:

- See [KIDV Recyclecheck rigid packaging](#).

For flexible packaging:

- See [KIDV Recyclecheck flexible packaging](#).

USE OF POST-CONSUMER RECYCLED CONTENT

Definitions:

- **Recycled content after consumption (“Post consumer”)**
 - Recycled content that originates from plastic packaging placed on the market.
- **Contact sensitive packaging that qualifies for Fee Modulation**
 - Packaging for food contact (human and animal) and cosmetics.

Conditions and distinction:

- Condition is the use of “post-consumer” recycled content.
- For contact sensitive packaging: discount when using >10% recycled content.
- For non-contact sensitive packaging: discount when using >20% recycled content.

Conditions for use of post-consumer recycled content

- ✓ **Reward all plastic packaging (with material rate):**

The reward for use of recycled content applies to all packaging to which the plastic material rate (rigid of flexible) applies.

- ✓ **No material restriction:**

We reward all packaging of which > 50% of weight is plastic.

- ✓ **No size restriction:**

Large rigid packaging > 5l or small packaging < 3 cm are also rewarded for the use of recycled content.

- ✓ **No restriction for disruptive packaging in recycling:**

Packaging containing paint, silicones, glue, or cement is also rewarded for use of recycled content.

INNOVATION PROGRAM

For new materials and/or production processes, we offer tailor-made solutions in the form of the innovation program.

To qualify for the innovation program, the following conditions apply:

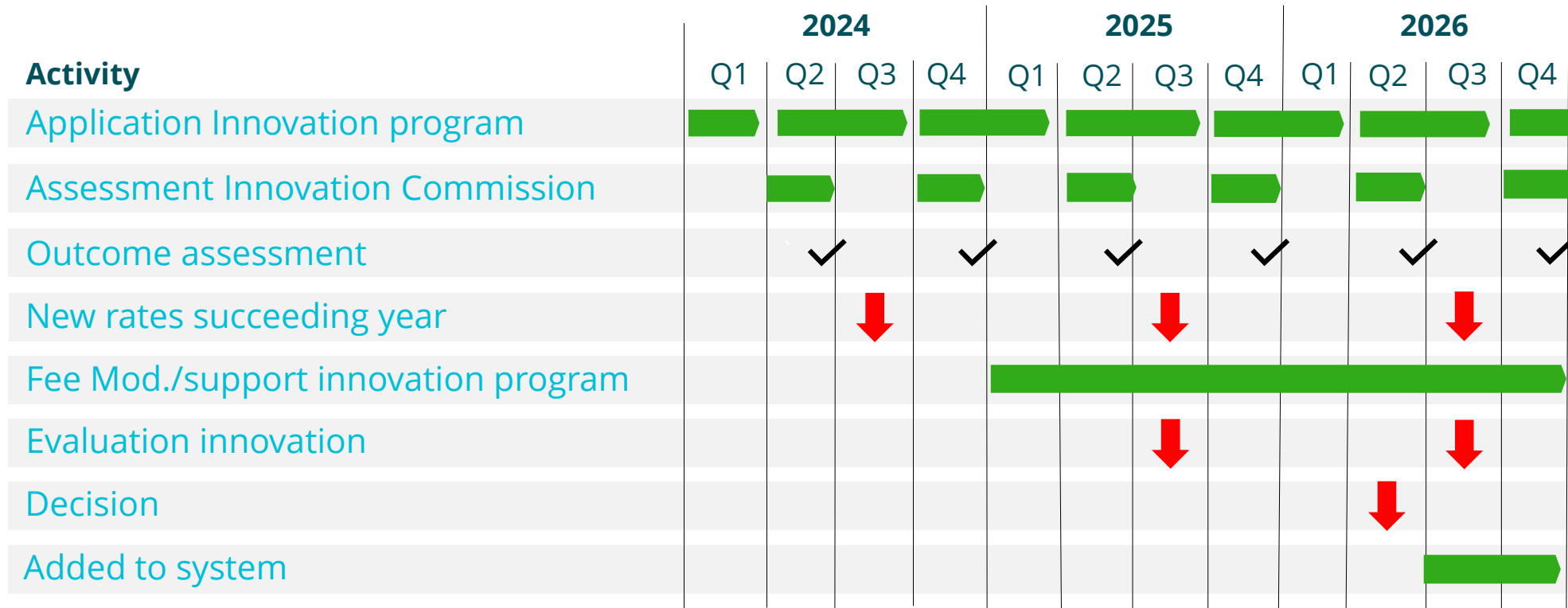
1. The innovation relates to a **new plastic material, production process or technique** for the plastic chain
2. The innovations contributes to the objectives of **The Plastic Guide**.
3. The Innovation is **available** to everyone.
4. Only the **producer/importer*** can apply for the innovation program for new materials or production process/technology. A comprehensive **plan of action** (including details of the impact (cost/quality/quantity) on collection, sorting and recycling systems) must be submitted with the application.

* Everyone obliged to file a declaration for the Packaging Waste Management Fee.

Definition in PPWR:

*'innovative packaging' means a form of packaging that is manufactured using **new materials**, design or production processes, **resulting in a significant improvement in the functions of packaging, such as containment, protection, handling, delivery or presentation of products, and in demonstrable environmental benefits**, with the exception of packaging that is the result of modification of existing packaging for the sole purpose of improved presentation of products and marketing;*

Process Innovation program



Administration

- **Expand** registration of data **per packaging** in your own system.
- Preparation for 'Packaging Passport' announcement from PPWR.
- **Record** packaging specifications in your own system and **viewable** during inspection.
- **Recommendation:** Prepare administration with **additional fields** (due to possible additional regulatory requirements).

Data fields packaging	Specification	Data recording
Material	Plastic	kg (number of items for SUP)
Type of packaging	Rigid / Flexible	Rigid / flex
Contact sensitive	Contact sensitive / non- contact sensitive	Contact sensitive / non-contact sensitive
Material type	Rigid: PE / PP / PET Flexible: PE / PP	PE / PP / PET
Colour	Transparent / White / Natural	Transparent / White / Natural
Composition	Mono	Yes / no
Label	Material type (PE / PP), Size, Printing	Yes / no
Recycled content	Contact sensitive / non- contact sensitive	In kg or %
Good recyclable	Good recyclable	Yes / no

Need help?


Send your questions to:
TD@afvalfondsverpakkingen.nl



afvalfonds
verpakkingen

NL **SCHOON**

G nedvang b.v.

 Kennisinstituut
Duurzaam Verpakken

STATIGGOLD
NEDERLAND

Nederland circulair
elke verpakking telt