



Concept to reality

Mpact Group

Mpact Versapak

Value chain focus

Mpact Versapak's sustainability approach

Brining sustainability to life: PETZorb



**Level 1
B-BEEE**



5,142



**39 Operating
Sites**



3 Countries



**Paper
Business**

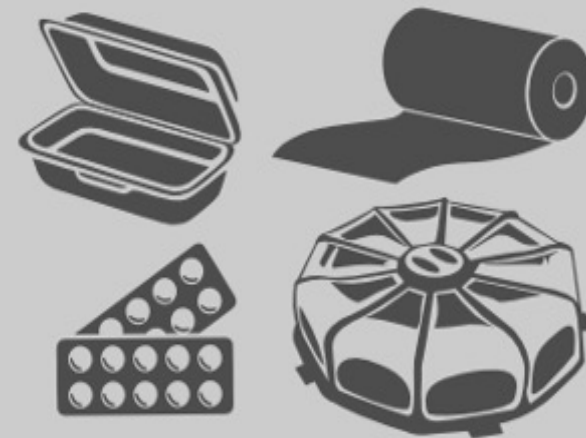
- Recycling
- Paper Manufacturing
- Corrugated



**Plastics
Business**

- PET Bottles and Closures
- Trays and Films
- FMCG Containers
- Bins and Crates

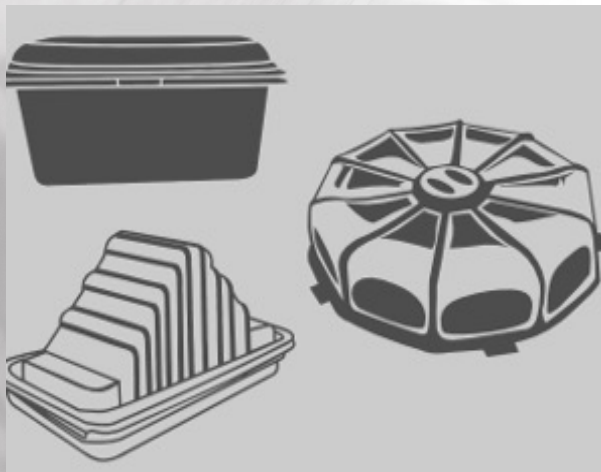
Paarl



TRAYS AND FILM

- Polystyrene trays
- Fast food containers
- PET trays & containers
- Clingfilm

Roodekop



TRAYS

- Polystyrene trays
- PET trays & containers

Migration limits
EU directive
10/2011



Regulation (EC)
no 2023/2008
good
manufacturing
practices; food
materials



EU directive
10/2011 or FDA
standards;
certified for direct
food applications

Polyco
Making waste work



SAVA
Southern African Vinols Association



Plastics | SA



Our approach to sustainability

- Consistent terminology
- Packaging design & value chain: part of the solution
- Design principles
- Bringing innovation to life



GREENWASHING:
the act of misleading consumers regarding environmental practices
or benefits pertaining to a packaging item, product or service.

Embezzling truths about sustainability make take care of the present but it will not take
care of our joint future.

By raising awareness, we can hold each other accountable and make truly beneficial
decisions around packaging and environmental matters.

Sustainable packaging

Sustainable packaging is not simply an indication of a packs' recyclability. Sustainable packaging is packaging designed for a specific product and is fit for purpose, *consistently* efficient in resource utilisation and provides benefit throughout its entire life cycle whilst still meeting performance, cost and product-packaging ratio criteria.

Recycling

Recycling is the mechanical or chemical process of converting waste into reusable material.

Closed loop recycling

Closed loop recycling refers to a process where a packaging item is recycled into its same form or similar product, of the same quality, e.g. when a food grade PET bottle is recycled and a new food grade rPET food punnet is produced from the recycled content.

Open loop recycling

Open loop recycling refers to a process where recycled material is converted into either new, lower-value raw material or a product that is different to its original form, for example when polypropylene closures are processed and used to produce garden furniture.

Recyclate

Recyclate is post-consumer waste that has been successfully processed back into usable raw material, in a recycling plant, and can be used to produce new products.

Recycled content

Recycled content is the percentage of recovered material in a packaging item. It reduces dependence on virgin material and creates a demand for recycled plastics which stimulates investment in the collection, sorting and recycling industry.

Recyclable packaging

Recyclable packaging is packaging that complies with the “**design for recycling**” principles, can be collected post-consumer use, sorted and recycled.

Bioplastics or renewable plastics

A packaging item can be termed as a bioplastic item when it is made from biological substances or biomass, such as plants, rather than from a fossil fuel or petroleum-based substance. Not all bio-based plastics are biodegradable or compostable and still has to follow conventional recycling methods.

Compostable and biodegradable packaging

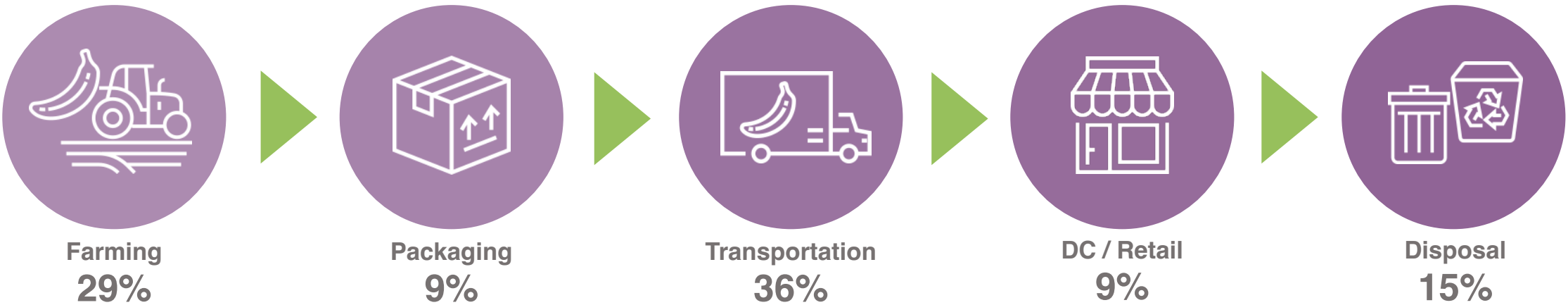
- For packaging to be compostable and biodegradable it has to break down into non-toxic, natural elements such as CO₂ and water.
- **Compostable** packaging requires microorganisms (bacteria and fungi), humidity and heat to decompose in a *specified timeframe* of 12 weeks.
- **Biodegradable** products also require microorganism to help it break down but within a *non-specified timeframe*.
- All compostable packaging is biodegradable either in industrial or home composting facilities but not all biodegradable plastic packaging are compostable as it won't break down in a stipulated timeframe.
- The concern with biodegradable and compostable packaging is that it may justify littering since the perception is that it will simply disappear and break down into natural elements.

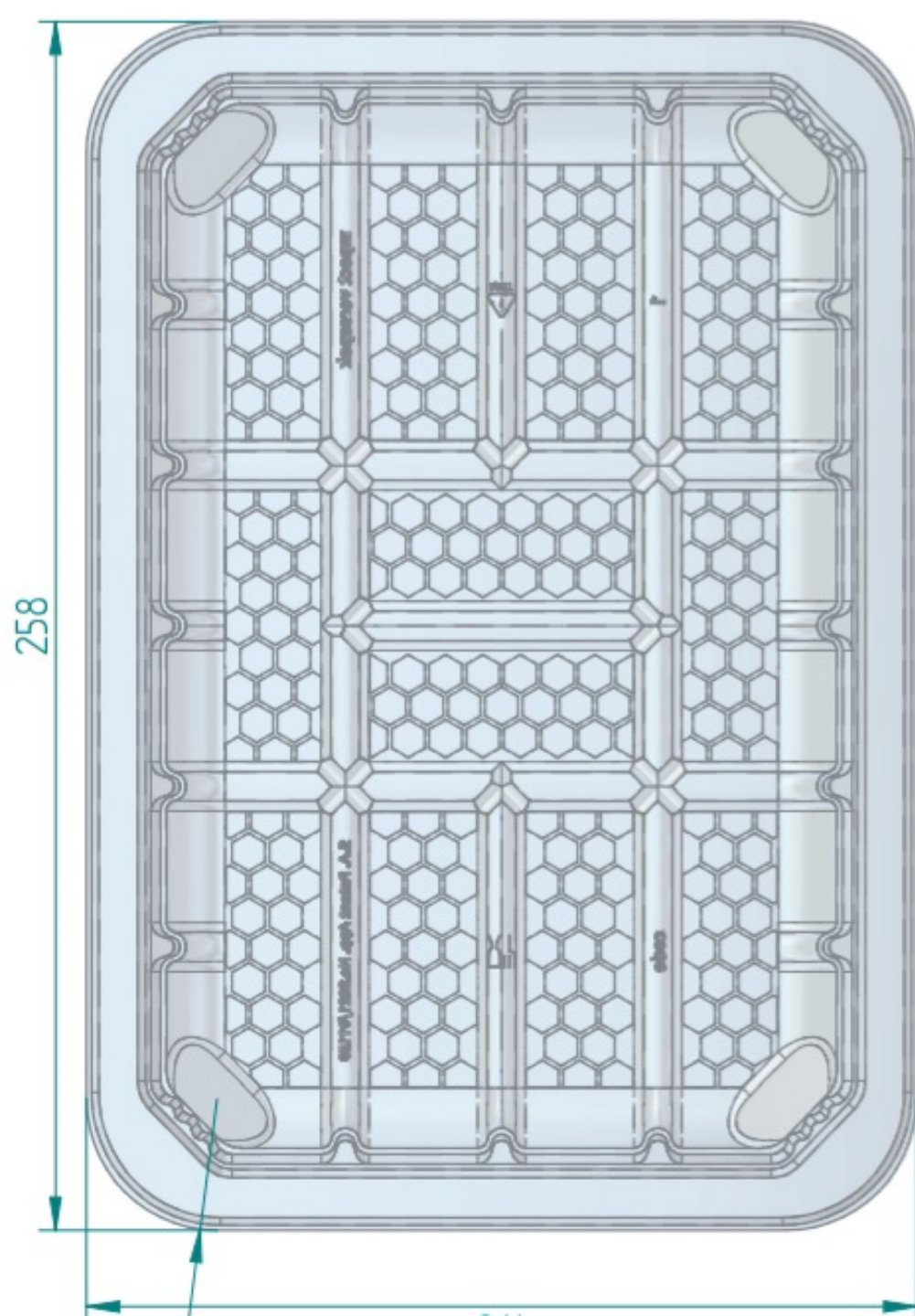
Reusable or refillable packaging

Reusable packaging is refilled with the same product which it was originally filled with, e.g. purchasing refill packs to refill at home, refilling at an in-store dispensing system or using a drop-off point to return empty packaging for the brand owner to refill.

Packaging design & value chain: part of the solution

Banana Caste Study | LCA: Carbon footprint allocation across the lifecycle (CO₂e)

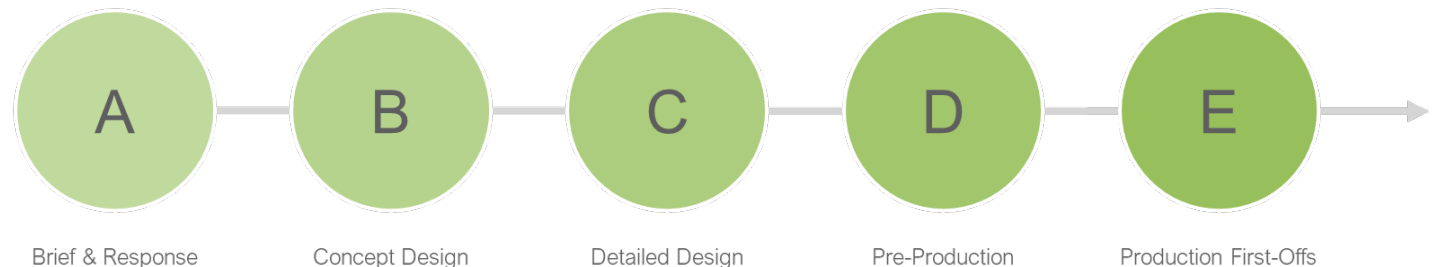


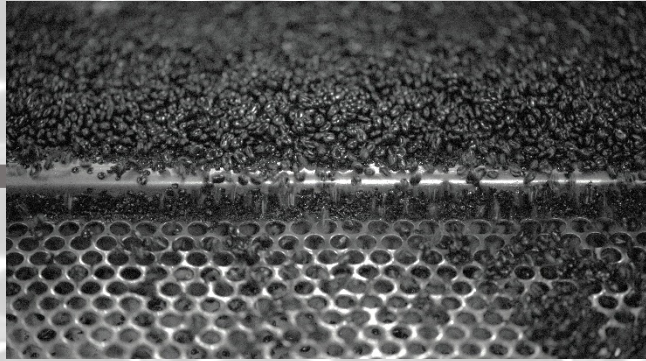


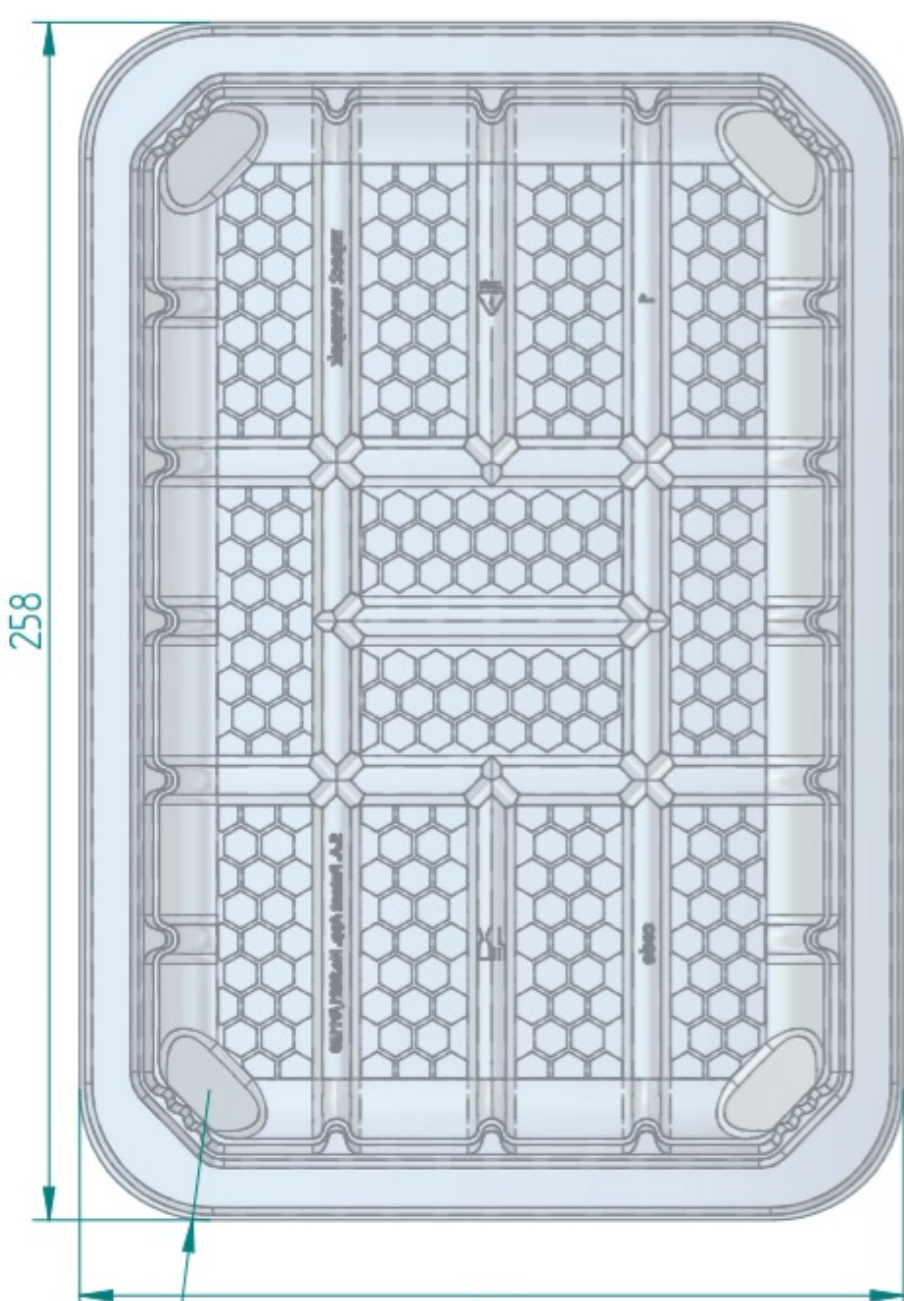
Innovation and Design Centre

Our offering starts with exceptional designs and ends with a packaging solution, in record timing!

We expertly design packaging that optimises innovation, environmental benefit, performance and product-material ratio whilst being fully compliant to sustainable design principles.







- fully recyclable
- food grade rPET
- eliminates 20 million non-biodegradable soaker pads
- supports the return of post-consumer waste PET into SA's economy
- reduce dependence on virgin material
- creates a demand for recycled plastics
- stimulates investment in collection and recycling industry
- reducing leakage of products into the environment.
- creating new job opportunities through the beneficiation of PET from landfill
- complies to 'design for recycling' principles
- generic range: enabling a large client base to support and drive environmental benefit over an extended period.

The trays are the subject of South African Design Application Nos. A2021/00168, A202100169 and F2021/00170. In addition, technology employed in the trays is the subject of South African Provisional Patent Application No. 2021/0115



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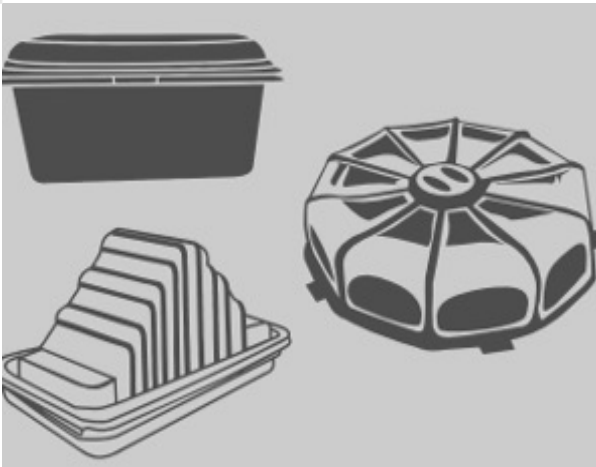


TRAYS AND FILM

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REDUCE · RE-USE · RECYCLE · RE-THINK · RE-PURPOSE



Thank You