



Better Planet  
Packaging

# Bag-in-Box Powergrip

*Smarter, cleaner,  
more efficient*



# DISCOVER, RETHINK, INNOVATE...

*With Bag-in-Box Powergrip, not a drop goes to waste as you contribute to a sustainable future.*

- Easy single handed pouring*
- No gushing*
- Up to 70% plastic reduction*
- Lower CO<sub>2</sub> in transport and materials*
- More room for mandatory info and branding*



# REGULATORY PRESSURE & SUSTAINABILITY DEMAND

- Drivers: legal compliance and push for sustainable packaging
- PPWR legislation (EU, 2030): max. 50% empty space in packaging
- Impact: common formats often non-compliant (e.g. jerrycans, HDPE bottles,...)
- Labeling challenge: increasingly difficult to display mandatory info readably on small labels
- Upcoming (2027–2030): stricter rules on minimum font sizes and spacing



# What is void?

Excessive empty space (void space) inside packaging, especially in e-commerce, retail, and transport packaging.



Detergent Bottle  
20% Void



Detergent Bottle  
30% Void



Oil Can  
40% Void



Detergent Bottle  
40% Void



Detergent Bottle  
60% Void



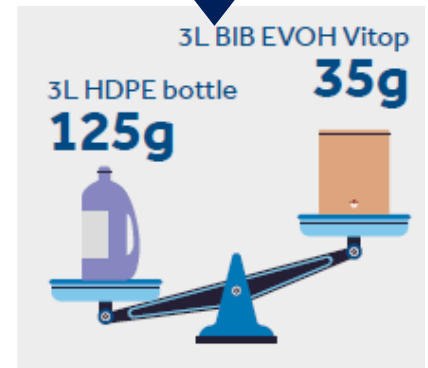
# Use of plastics greatly reduced



| Rigid       | 20L container    | 10L container | 5L container  | 10L bucket       | 5L bucket   | 5L bottle PET | 3L bottle HDPE |
|-------------|------------------|---------------|---------------|------------------|-------------|---------------|----------------|
| Weight, g   | 816              | 433           | 152           | 325              | 179         | 88            | 125            |
| Bag         | 20L Lx High Flow | 10L EVOH NBV  | 5L EVOH Vitop | 10L EVOH Topette | 5L EVOH VOP | 5L EVOH Vitop | 3L EVOH Vitop  |
| Weight, g   | 140              | 61            | 41            | 55               | 48.1        | 41            | 35             |
| % reduction | <b>83%</b>       | <b>86%</b>    | <b>73%</b>    | <b>83%</b>       | <b>73%</b>  | <b>54%</b>    | <b>72%</b>     |

## Less plastic

BIB uses 54% - 86% less plastic material weight than rigid plastic packaging.

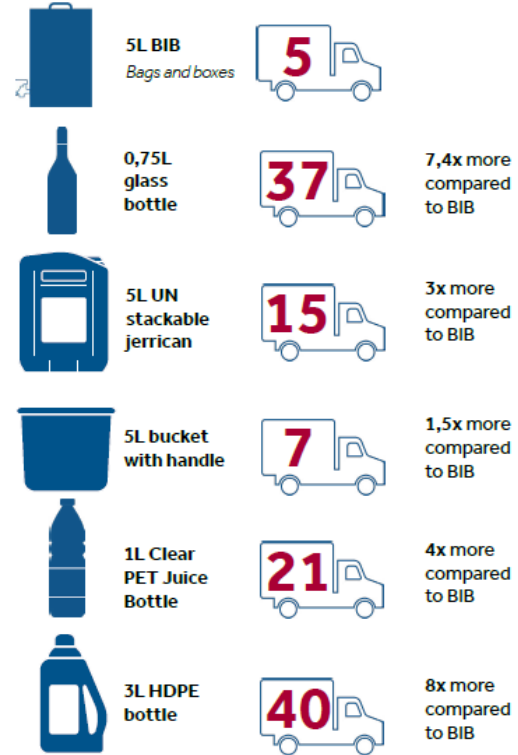


# Logistics savings

Empty packaging is delivered flat using very little space and after filling, easy to palletise. This leads to substantial savings in logistic costs and CO<sub>2</sub> emissions.



## TRUCKS WITH EMPTY PACKAGING NECESSARY FOR FILLING 1 MILLION LITERS



### CO<sub>2</sub> and logistics efficiency

BIB reduces the amount of packaging per litre of product.

Up to 35 trucks can be removed from the supply chain, and warehousing costs are also reduced – substantial savings up to 40%.

1L empty PET bottles require 21 trucks for 1 million litres of product  
**4x more**  
than using flat BIB



# CO<sub>2</sub> reduction in production and end-of-life



5L

**735**

CO<sub>2</sub>e (g/pc)

CO<sub>2</sub>  
↓↓↓  
**-70%**



5L

**219**

CO<sub>2</sub>e (g/pc)



# Bag-in-Box technology

Integrated business

**Wide range of film structures available,  
suitable for different markets.**

(e.g. clean, hot or aseptic filling, barrier and non-barrier films,...)

**Wide selection of fitments and taps available,  
suitable for many different applications.**



# Specifications



**B-Flute**  
Virgin 22%  
Recycled 78%



**E-Flute**  
Virgin 22%  
Recycled 78%

- Manual setup
- Semi-automatically
- Fully machine processable





# Bag-in-Box Powergrip

Questions?

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*Technical: Sander Van Staay.*

*Machines: Julien Harter*