



# Fresh Thinking from **LINPAC** Packaging

### Why Choose rPET?

RPET from LINPAC Packaging is fully compatible with existing packing and sealing lines and has been developed to provide excellent sealing properties with a wide range of lidding films.

Trays manufactured in rPET can be sealed at reduced temperatures thereby using less energy when compared to PP trays



## Typical energy use during tray sealing

Energy used to seal 70M PP trays at  $200^{\circ}C = 196,000 \text{kWh}$ 

### Energy used to seal 70M rPET/PP trays at $150^{\circ}C = 131,000$ kWh

Trays manufactured in rPET offer a significantly improved gas barrier when compared with PP trays



Example: 5°C, 85% RH  $PP = 47,250 \text{ cc}/\mu\text{m x m2}$  $PET = 950 \text{ cc}/\mu\text{m} \text{ x m}2$ 50 x increased barrier

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PACKAGING						
fresh thinking!						



Variapack

## **Clarity**





RPET trays offer significantly better clarity and product visibility that PP trays

# **Environmental Credentials**



## **Recycled Content**

- LINPAC rPET trays are manufactured with up to 90% recycled content and the new Rfresh® Elite tray is fully recyclable at the end of its life
- LINPAC has invested in combined vacuum controlled residence time and elevated temperature supercleaning systems for cleaning of all incoming recycled materials Supplied by world leading manufacturers, the LINPAC supercleaning systems are operated in compliance with EC 282/2008 and will be accredited by EFSA and EC

4500

4000



Tray Weight	Volume		Virgin tonnage	PCR tonnage	Total tonnage
16.7g	70m	PP S4-35	993.65	175.35	1169
19.1g	70m	RPET S4-35	133.7	1203.3	1337

### **Carbon Footprint**

- RPET trays offer a reduced carbon footprint - typically 10-15% less than competitive PP trays
- PP (15% rHDPE) @ 62.2g x 70m = 4,354 tonnes of CO2e
- rPET (90% PCR) @ 51.98g x 70m = 3,638 tonnes of CO2e

This gives an annual reduction of 716 tonnes of CO2e when using a LINPAC RPET tray compared with a comparative PP tray.

#### This equates to 3,580 trees!





3500 3000 2500 2000 8 1500 1000 500 0 Year 1 Year 2

Total carbon saving equivalent to 4,220 trees over 3 years!

#### Effect of 2% annual light-weighting on total Carbon footprint

PP Baseline

rPET (90% PCR)