

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

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200^{\circ} \mathrm{C}=196,000 \mathrm{kWh}
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Energy used to seal 70M rPET/PP trays at $150^{\circ} \mathrm{C}=131,000 \mathrm{kWh}$

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


Example: $5^{\circ} \mathrm{C}, 85 \% \mathrm{RH}$ $\mathrm{PP}=47,250 \mathrm{cc} / \mu \mathrm{m} \times \mathrm{m} 2$ $\mathrm{PET}=950 \mathrm{cc} / \mu \mathrm{m} \times \mathrm{m} 2$ 50 x increased barrier

## Clarity



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

(\% Haze D65/10)

## Environmental Credentials



- 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
- $\quad$ 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
RPET vs PP



## 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 CO 2 e
- rPET (90\% PCR) @ $51.98 \mathrm{~g} \times 70 \mathrm{~m}=3,638$ 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!


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


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

