

# PET Thermoforms Circularity 2025

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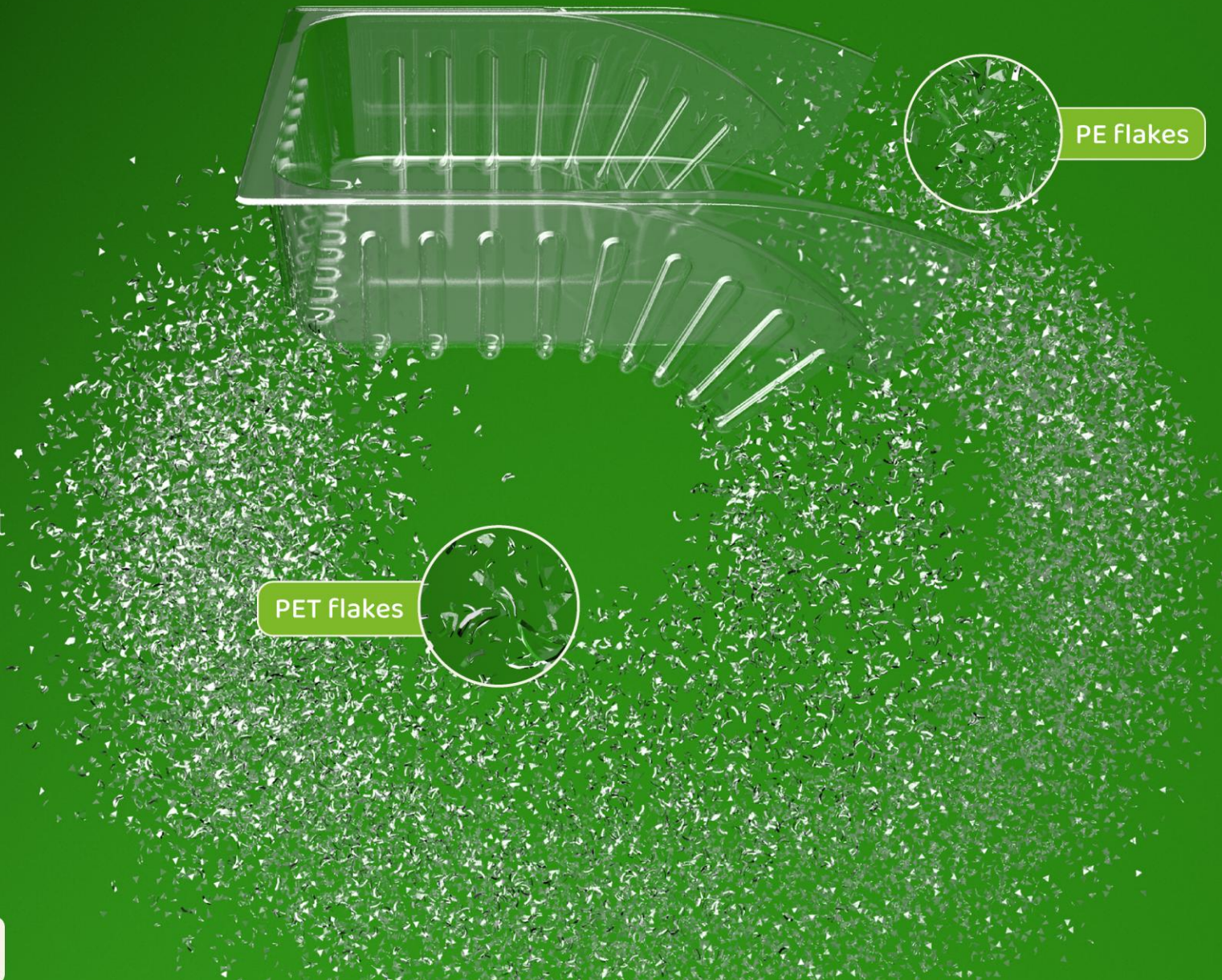
# Perpetuity™

Sustainably recycling multilayer PET

Multilayer packaging based on polyethylene terephthalate (PET) now has a **bright and sustainable future** thanks to Evertis.

Closed-loop **recycling technology** that realizes the role recovered multilayer PET recycle will play in tomorrow's packaging industry, **now**.

**Perpetuity:** something that continues forever, without end. An unending state or action that repeats consistently over time.



# A fully operational and commercialized process



# A proven example delivering ready-now, true circularity

Renascis pioneers the recycling of PCR trays thanks to our Perpetuity™ delamination technology.

## Multilayer PET trays

- Designed to provide enhanced food protection, preserving freshness and extending shelf-life.
- PET multilayer structures ensure excellent moisture and oxygen barrier properties, safeguarding the packaged goods.

## Film production based on tray-to-tray

- Evertis extrudes this tray-to-tray delaminated flakes into new film.
- Incorporation of flakes is done through a decontamination stage to comply with food-contact standards.
- This tray-to-tray film presented very good optical and mechanical properties (e.g. haze, viscosity).

## Post-consumer trays

- Evertis and Renascis have been working with several ERPs in different countries to define guidelines for PET tray streams.
- We have successfully tested the recycling of several mono and multilayer PET streams.

## Sorting, shredding, and washing of PCR trays

- During the washing and sorting phase, non-clear or non-PET trays are excluded. Generally, these non-recyclable materials represent < 10% of the total input.
- Once sorting and washing is made, the output of this stage includes both mono and multilayer clear PET flakes.

## Delamination of multilayer flakes

- Thanks to our Perpetuity™ technology, multilayer PET flakes are safely delaminated.
- After delamination is performed, the result of this stage includes clear mono PET flakes with a purity > 99,9%.
- This high purity of delaminated PET flakes allows to incorporate into new material without compromising its quality.



Certified as a  
RETRAY recycler



# Thank you!

