// Case study



LINER2LINER

CLOSING THE LOOP WITH RECYCLABLE INDUSTRIAL PLASTIC PACKAGING. THE COLLABORATION BETWEEN ECEPLAST AND VERSALIS.



Project highlights

- **Objective:** accelerate the transition towards a circular model and more sustainable use of resources.
- **Drivers:** Product Innovation, Eco-design, Closed Loop Scheme, Supply Chain Partnership.
- **Benefits:** lower resources depletion, lower plastic waste generation, high quality secondary raw material, lower carbon footprint.

"UN" Sustainable Developments Goals 2030



The product

Applying Eco-design principles, we created a unique Linerbag made of 100% Polyethylene. It was designed to be fully recycled and regranulated in high quality raw material for new plastic film.

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Main Challenges

• Technical:

convert all the different components (elastic rubber bands, adhesive tape with fiber glass, PP strings, etc...) into PE elements, guaranteeing the same performance and costs.

• Operations:

adapt the production tools to the new materials and assist customers on the ground to enable the full deployment of the project.

- Regulation: build a network for the collection and recycle of liners at local level, considering the issues moving waste materials between EU countries.
- Easy and safe to use as any other Eceplast standard Liner bag.
- Re-design and quality tests approved and certified by Versalis
- 100% recyclable to generate new plastic granules for a circular production loop with zero waste.

Benefits

The results

- Indicator (MCI) increases from 0,15 (linear) up to 0,78 (loop scheme proposed)
- Up to **50%** reduction
- Up to **20%** reduction of carbon footprint
- Up to 20% reduction of water footprint
- Up to **30%** less resources depletion

















- of virgin plastic