



Liner2Liner

Closing the loop with recyclable industrial plastic packaging



versalis



ECEPLAST
SUSTAINABLE
PACKAGING INNOVATORS



Project highlights



The project stems from the fruitful and long-established **collaboration** between Eceplast and Versalis.



Accelerate the transition towards a circular model and more sustainable use of resources.



Drivers: Product Innovation, **Eco-design**, Closed Loop Scheme, Supply Chain Partnership



Environmental benefits: Lower resources depletion, Lower plastic waste generation, High quality secondary raw material, Lower carbon footprint amongst other environmental impacts

Re-design for Recycling

Linerbag are used for **bulk transportation** in container of dry commodities (Food and Chemical).

To transport the same quantity of product, with Linerbag we save ten times the plastic packaging used for transportation in bags on pallet, therefore being an **environmentally friendly born** packaging.

Good was not enough!

With a “**design for recycling**” approach, we created a Linerbag made solely of **Polyethylene**.





Main Challenges



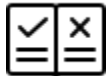
Technical

Convert all the various 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;
Assist customers on the ground to enable the full deployment of the project



Regulation

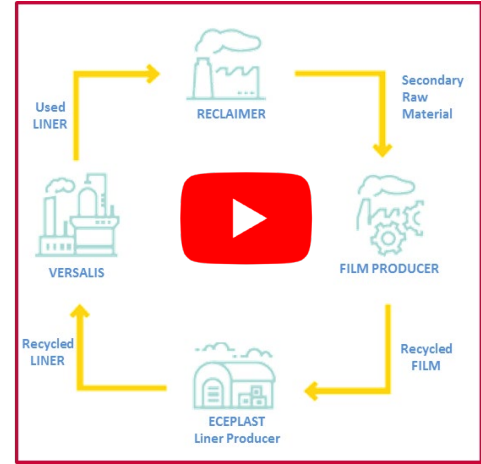
Moving waste materials in EU remains the real critical challenge!

Designed to be fully recycled and generate premium quality raw materials:

-  Easy and safe to use as any other Eceplast standard Liner bag.
-  Tests passed and the new design approved.
-  100% recyclable and convertible into granulates for a circular production cycle with zero waste.



Collection, Recycling, Extruding



Benefits estimated



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Material Circularity Indicator (MCI) increases from 0,15 (linear) up to 0,78 (loop scheme proposed)



Up to 50% reduction of virgin plastic



Up to 20% reduction of carbon footprint



Up to 20% reduction of water footprint

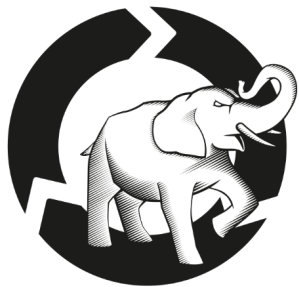


Up to 30% less resources depletion



Note: MCI estimated using Product Level Dynamic Modelling Tool (Ellen Macarthur Foundation + GRANTA). Environmental impacts estimated using GaBi software and Environmental Footprint 2.0 methodology.

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