

Because plastic lasts for hundreds of years in our oceans, causing a major pollution issue, Lactips is manufacturing the first plastic with zero environmental impact, thanks to a pioneering technology enabling it to be produced using a natural raw material.

Lactips offers the first plastic-free plastic, made of 100% natural ingredients and fully biodegradable.

Created in 2014, Lactips is designing, developing and marketing an alternative solution to polluting plastics.

Its polymer, the only one of its kind in the world, is being industrialized across the entire plastic production chain, providing a value-creating alternative to improve current soluble solutions and create new strong value-added markets. Lactips offers an effective eco-packaging material to support its clients with their circular economy strategy.



The entrepreneur

Marie-Hélène GRAMATIKOFF

Lyon Itech plastics engineer, EM Lyon Management, HEC Paris Challenge+, 10 years heading up industrial, strategic and operational development projects for leading companies in France and international markets.



The researcher

Frédéric PROCHAZKA

PhD (France & UK) Polymer Physical Chemistry, Postgraduate level from University of Minnesota, Lecturer-researcher with the Polymer Materials Engineering (IMP) laboratory and Associate Professor at Université Jean Monnet in Saint-Étienne.

Creating thermoplastic pellets

1 The milk protein powder is mixed with plant-based additives in the twin-screw extruder.

2 This process makes it possible to extract thermoplastic pellets, which are then dried.

3 The pellets are compatible with all plastic processes: film, injection, vertical and horizontal bagging.

1 operational center
1,500m² in Metrotech (France)



+45 people / 5 divisions
R&D • Sales • Industry • Production • Finance

6 patents protecting our unique technology worldwide

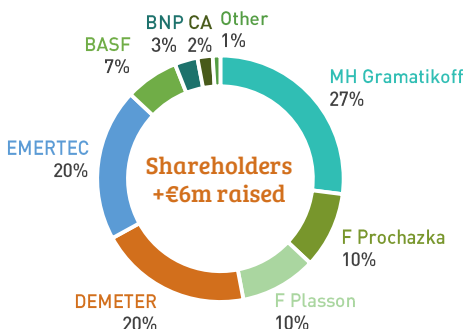
Unique high value-added material

CLEAN
Natural polymer free from any chemical transformation
Biodegradable in water and home compostable

FUNCTIONALIZABLE
High barriers (oxygen, mineral oils and fats)
Soluble
Printable
Sealable

RELIABLE
Food contact
Eco-labels
Edible

Young business with strong support



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 766603

Latest news



On December 17, 2019, Lactips was **ISO 9001** certified by the independent body APAVE.

This certification reflects Lactips' focus on continuously improving its processes and services to guarantee client satisfaction. This highlights the strong commitments upheld by all the teams each day.