

# Back to earth

Facts about biobased compostable plastic



## Luminy® PLA

Beyond conventional plastic



# Only 9%

of the world's conventional plastic produced has ever been recycled<sup>1</sup>



Contaminated plastics with food waste cannot be recycled



Food waste and packaging ends up in landfill or incinerated and not recycled



Mismanagement of plastic waste contributes to soil and water pollution, as well as global warming

### TotalEnergies Corbion uses sustainably sourced sugarcane to produce Luminy® PLA, a biobased versatile and compostable plastic.

A viable alternative to conventional plastic



- Extends consumable food life and avoids food waste
- Provides convenience and functionality (items containing food)
- Avoids contamination of food waste stream with plastic (items often thrown with food waste)
- Improves hygiene
- Facilitates collection of biowaste, and diverts biowaste from landfill and incineration



## Did you know?

Biobased compostable plastics such as PLA degrade in industrial composting facilities and disintegrate faster than orange peels and paper.

University research study<sup>2</sup>

PLA plant pot fully disintegrated after 11 days

PLA teabags fully disintegrated after 22 days

But orange peel and banana skins were still present after 22 days



Luminy® PLA is certified EN 13432 / ASTM D6400 in an industrial composter

## Composting organic waste and PLA produces high quality compost...

- Free from persistent microplastics pollution
- Reducing the use of chemical fertilizers
- Bringing back carbon to the soil and providing soil nutrients

### BACK TO EARTH

Speak to our team to discover what Luminy® PLA can do for your business: [pla@totalenergies-corbion.com](mailto:pla@totalenergies-corbion.com)



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<sup>1</sup> <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5517107/>

<sup>2</sup> <https://research.wur.nl/en/publications/the-fate-of-compostable-plastic-products-in-a-full-scale-industri>