Bioplastics product profile
Luminy® PLA for drinking bottles

Sansu and Naku together with TotalEnergies Corbion are examples of closing the loop with the Luminy® PLA water bottle. The PLA bottle is 100% biobased reducing its carbon footprint and fossil resources dependance. After use, the bottles are collected, cleaned and recycled. The recycling process takes place at the TotalEnergies Corbion plant in Thailand. The result from the advanced recycling of the bottles is PLA monomers, which can be reused in the production of new PLA with exactly the same quality as virgin PLA. The recycled PLA is then reused in the production of new water bottles. From bottles to bottles we stay in the cycle!

Responding to hygiene, functionality and design requirements, the water bottles have a further reduced environmental impact. The bottles containing recycled content are food contact approved, and have the same mechanical and optical properties as the original water bottles.

The recyclability of the bottles offers a sustainable end of life, by keeping materials in the loop it reduces the need for virgin biomass, avoiding carbon emissions. Luminy® PLA with advanced recycling is a prime example of circularity.

The Luminy® rPLA, containing post industrial and post consumer recycled PLA is now commercially available.

- 100% biobased
- Recycled content
- Recyclable
- Food contact approved
- Good mechanical and optical properties

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RETHINKING RECYCLING

Boosting circularity with biobased plastics advanced recycling

At TotalEnergies Corbion, we believe that in a circular economy, products at their ‘end-of-life’ are the basis for new products. Innovative biobased materials such as Luminy® PLA (Poly Lactic Acid) can be transformed back into feedstock via mechanical or chemical/advanced recycling. rPLA is sourced from used PLA and maintains the same certified characteristics. Luminy® PLA product life cycles can be endless.

Summary benefits of recycling PLA

- Keeps items made from plastic in the recycling loop
- Reduces carbon footprint by using an energy-efficient process
- Reduces the consumption of natural resources and virgin materials
- Easy to separate in recycling streams with widely used sorting methods
- Allows production of high quality products with food contact approval
- Decrease landfill and the related environmental impact

Stay in the cycle

Rethinking recycling with PLA bioplastics