Luminy®
PLA bioplastics
for a brighter future

Biobased • Recyclable • Compostable • Innovative

TotalEnergies Corbion

Plant the future with Luminy® PLA

Bioplastics made from sugarcane

Luminy® PLA bioplastics are 100% biobased, meaning they are completely made from annually renewable and responsibly grown sugarcane plants.

Why sugarcane?

Feedstock efficiency

Sugarcane is **2.5-3** times more efficient in producing PLA when compared to other feedstocks like corn and bagasse.

Minimal land use

If all fossil-based plastics currently produced were to become PLA made from sugarcane, it would require just **1.23%** of the global agricultural land.

CO_2 capture

Sugarcane crop captures 1.83 kg of CO_2 for every kilogram of PLA produced. Luminy® PLA total production captures the equivalent to **16,000 cars** worth of CO_2 annually.*

* average CO_2 emissions per vehicle by the US Environmental Protection Agency.

Luminy® PLA bioplastics have a

75% lower

carbon footprint*

*Luminy® PLA bioplastics have a carbon footprint 75% lower than traditional fossil-based plastics when biogenic carbon is taken into account.

How PLA is made

Green House Gas capture (atmospheric CO_2) → Sugarcane → Raw sugar → Lactic acid → PLA → Compound (optional) → PLA product application

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