



Recycled PLA (rPLA) available!

rPLA retains the same quality as virgin PLA, creating an opportunity for a closed-loop system

Luminy® PLA for fiber applications

Bioplastics product profile

The leading sustainable sneaker companies use Luminy® PLA for many parts of their shoes. Since recycled PLA retains the quality of virgin, companies are also using PLA to create closed-loop systems.

Sneaker production accounts for an estimated 1.4% of global greenhouse gas emissions.* Replacing non-biobased options with PLA can increase these fiber products sustainability.

* From a study by Quantis titled, "Measuring Fashion: Insights from the Environmental Impact of the Global Apparel and Footwear Industries".

The premium functionality of PLA

- ✓ Durability and comfort on par with non-biobased options, like PET.
- ✓ Low odor retention when compared to PET-based fabrics.
- ✓ Fast drying with good wicking ability, which makes for an end product with breathability.
- ✓ Easy to disperse or direct dye using conventional processes.

Looking for high-performance eco-friendly solutions for your fiber applications? Scan here to get in touch!





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?

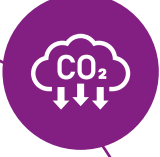
- ✓ **Feedstock efficiency**

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.
- ✓ **CO₂ capture**

Sugarcane crop captures 1.83 kg of CO₂ for every kilogram of PLA produced. Luminy® PLA total production captures the equivalent to **16,000 cars** worth of CO₂ annually.*

* average CO₂ 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

