



Giesecke+Devrient

# Convego® Natural: Sustainable bio-plastic cards to build an eco-conscious strategy



## Reduced carbon payment cards for eco-conscious customers.

Eco-conscious consumers are rapidly growing to be key market for banks and other financial institutions. It is estimated that 92% of customers will be more likely to trust a company that supports social or environmental issues<sup>1</sup>, meaning that investing in environmentally friendly products and services will have a genuine, positive impact on a financial service business' reputation.

The Convego® Natural card body is made of 100% of Polylactic Acid (PLA), a bioplastic which is industrially compostable, can be safely incinerated, and will not release chemicals if discarded in a landfill. PLA cards are as strong and durable as polyvinyl chloride (PVC) cards but are far less harmful to the environment as they degrade much faster than any other petroleum-based plastics and do not produce microplastics.

Whether you're taking your first steps on your eco-innovation journey or are looking for additional products and services to reinforce your eco-conscious business strategy, Convego® Natural can be a valuable part of your brand's sustainability story.

## What is Polylactic Acid (PLA)?

PLA, or Polylactic Acid, is a bio-based and biodegradable (under the right conditions) polymer made from annually renewable resources, offering a reduced carbon footprint versus many traditional plastics.

PLA is manufactured by Giesecke+Devrient (G+D) qualified partners into printable sheets according to G+D specific parameters. The PLA is typically made from corn-starch and sugarcane which is sourced from US, Netherlands and Thailand:

### Non-toxic

PLA is not toxic. In fact PLA is often used in food handling and medical implants that biodegrade within the body over time.

### Durable

These cards have been certified by an external Lab as well passing the ISO247819 2B profile for minimum 5 years life time under normal usage conditions.

### Certified

Our PLA cards have also been certified by VISA and Mastercard ensuring they meet all necessary scheme requirements.

### Industrially compostable

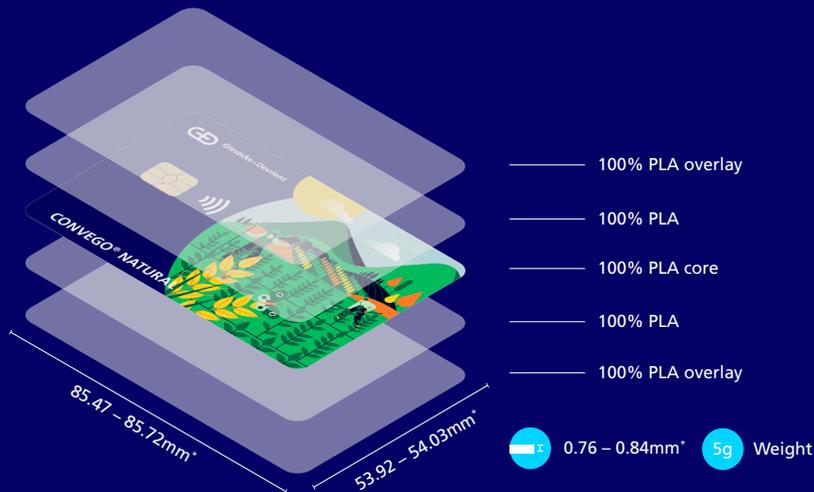
PLA is compostable under industrial conditions with concrete temperature, pressure and humidity conditions – typically 58C after six months.

### Composition

Our PLA is a certified bio-based renewable material made of sugarcane or corn starch that is not intended for human consumption.

<sup>1</sup> <https://www.forbes.com/sites/forbesnycouncil/2018/11/21/do-customers-really-care-about-your-environmental-impact/#4b6d67d1>

## The Convego® Natural card – key features



**Usage:** Independent tests verify a 5 year service life with average use.

**Petrol-free material:** Bio-plastic produced from renewable resources (sugarcane or corn starch).

**Non-hazardous:** Even when incinerated, the card does not emit any hazardous or toxic gases leaving only ashes. If sent to landfill, PLA does no harm and adds no chemicals to the soil.

**Petroleum-free material:** All card body layers are made from 100% PLA, except for the microchip, antenna, contact plate, magnetic strip, signature panel and scheme hologram.

\*As per ISO-7810

### Design and personalization

The Convego® Natural card offers a range of customization and personalization options to bring your eco-conscious brand to life:



#### Core materials

Inner core color options are set to be available soon.



#### Shape

The card can be shaped to requirements – as long as the payments scheme requirements allow it.



#### Magstripe

The magstripe can be colored black, green, red or blue.

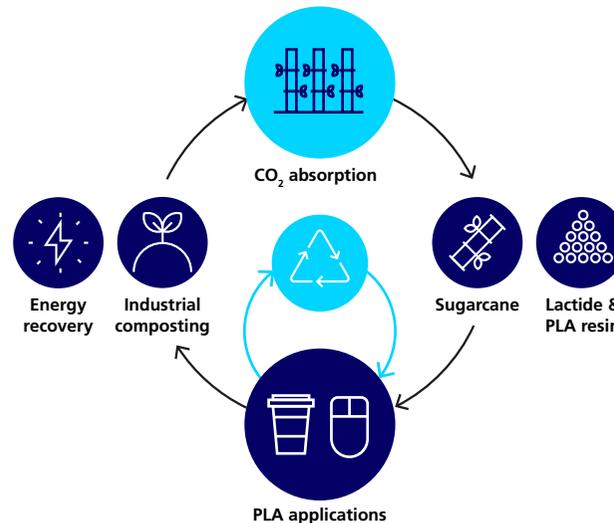


#### Special effects

A range of effects are available, from UV logos to mirror ink, pearlescent effects, tactile effects and glossy and matt finishes.

### Carbon-friendly approach

Taking a sustainable approach to card issuance by using PLA based materials potentially enables carbon-friendly outcomes across the entire ecosystem:



### Creating confidence

Giesecke+Devrient (G+D) is a global security technology provider headquartered in Munich, Germany. Founded in 1852, the company has a workforce of 12,600 employees and generated sales of EUR 2.53 billion in the 2022 fiscal year. A total of 103 subsidiaries and joint ventures across 33 countries ensure customer proximity worldwide.

Engineering trust through technology is G+D's core area of expertise. As a trusted partner to customers with the highest demands, G+D secures the essential values of the world. We develop customized technology in four major playing fields: payment, connectivity, identities and digital infrastructures.



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