



Giesecke+Devrient

# Convego® Recycled: Set greener sustainability standards for payment solutions



## Transform your issuance processes towards a carbon neutral future.

Today's urban life is heavily impacted by one-time use plastics which are often either discarded in landfills, or incinerated. We also know the impact that CO<sub>2</sub> emissions have on climate change and air pollution. Our research shows that using recycled PVC instead of producing more virgin PVC reduces the CO<sub>2</sub> footprint of the material by 61%. The Convego® Recycled card repurposes discarded PVC to make a new card, helps to alleviate this plastic burden and contributes to making our cities greener and more pleasant places to live.

To this day, most recycled cards in the market were composed of 85% recycled material. Our Convego® Beyond card is the first card body on the market made exclusively of 100% recycled PVC layers. It is designed to appeal to end users who focus on the sustainability and reusability aspect of the climate change message.

These layers being made of 100% recycled PVC, makes it easier for the Convego® Recycled card to be recycled again at the end of its own lifespan, and it enables card issuers to reach their carbon neutral corporate objectives. For an issuer's existing end customers, the Convego® Recycled card should have particular resonance as their payment cards move towards expiry and replacement. The use of plastics is already a critical concern to the majority of consumers, with 77% of respondents to a recent survey saying that plastic was the least environmentally responsible type of packaging<sup>1</sup>. Supporting the adoption of a more eco-friendly lifestyle is what a majority of consumers now expects from banks.

## What is rPVC?

rPVC, or recycled Poly Vinyl Chloride is a thermoplastic created from discarded plastic products that are reshaped and repurposed into new forms. This recycled plastic comes from many different sources and industries, such as packaging, printing, windows or the automotive industry. Typically these products would have been sent to landfill, so reuse following recycling is an excellent way to avoid polluting the land with discarded materials. rPVC is:

### Reusable

Where local recycling services allow, rPVC cards can be recycled again, eliminating waste sent to landfill again and again.

### Durable

Made to the same resilient standards as our non-recycled PVC cards, Giesecke+Devrient (G+D) have carefully developed these cards to ensure they function just as well as their non-recycled counterparts.

### Certified

Our rPVC cards have also been certified by VISA and Mastercard for both direct insertion and contactless operation, ensuring they meet all necessary scheme requirements.

### Sustainably sourced

Our rPVC is made plastic sourced from waste materials from multiple industries; from automotive to windows manufacturing.

### PVC vs rPVC (card body material)

PVC: 18,3 g CO<sub>2</sub>eq\*

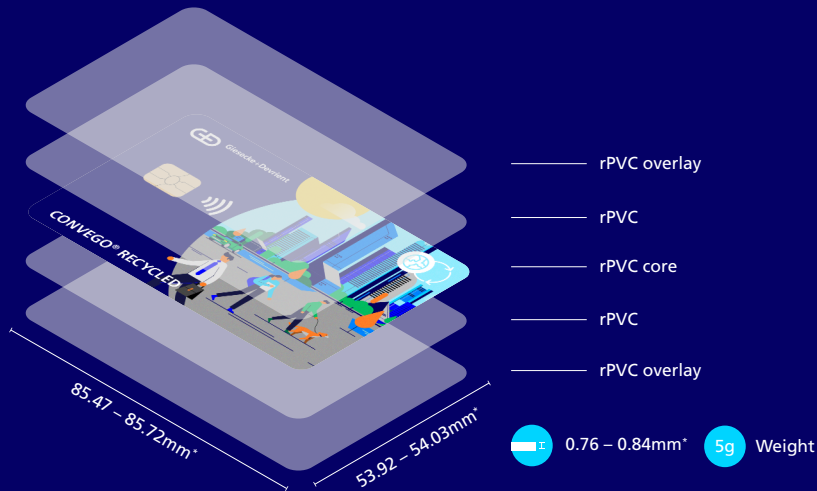
rPVC: 7,2 g CO<sub>2</sub>eq\*

Reduction: -61%

<sup>1</sup> <https://www.businessnewsdaily.com/15087-consumers-want-sustainable-products.html>

\* Unit is g of CO<sub>2</sub> equivalents (CO<sub>2</sub> eq).

## The Convego® Recycled card – key features



**Usage:** Independent ISO testing is in progress but should have a similar lifespan to traditional PVC cards.

**Material:** Renewable – made from Industrial PVC waste that has been collected from licensed companies.

**Non-hazardous:** The rPVC used to make Convego® Recycled can be recycled and re-used again, depending on local recycling policies.

**No virgin plastic:** All card body layers are made from 100% rPVC, except for the microchip, antenna, contact plate, magnetic strip, signature panel and scheme hologram.

\*As per ISO-7810

### Design and personalization

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



#### Silk screen printing

Results achieved on rPVC are comparable to PVC.



#### 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.

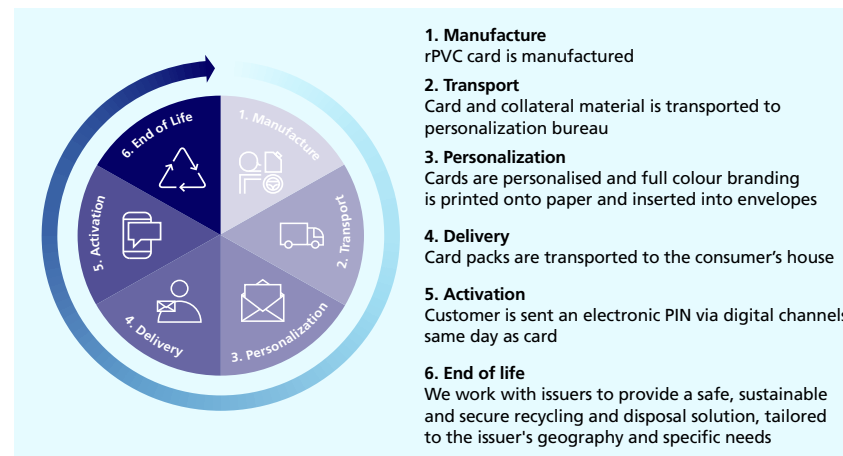


#### Special effects

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

### The eco-conscious production cycle:

Offering a card made from rPVC materials such as Convego® Recycled is just part of operating a sustainable card issuance program – benefiting you, and the environment:



### 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.



Giesecke+Devrient ePayments GmbH  
Prinzregentenstrasse 161  
81677 Munich  
Germany

[www.gi-de.com/](http://www.gi-de.com/)  
[www.gi-de.com/en/contact](http://www.gi-de.com/en/contact)

Follow us on:

