Which card for your environmentally conscious customers?

A quick guide to sustainable card materials.

<table>
<thead>
<tr>
<th>Material Source</th>
<th>Composition</th>
<th>Impact when incinerated</th>
<th>End of life options</th>
<th>Fully recyclable</th>
<th>Partially recyclable</th>
<th>Compostable</th>
<th>Original properties retained post incineration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ocean Plastic</td>
<td>Plastic collected by the oceans.</td>
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<tr>
<td>PLA</td>
<td>Industrial crops of corn starch and sugar cane.</td>
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<tr>
<td>rPVC</td>
<td>Post-industrial PVC</td>
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<tr>
<td>rPET</td>
<td>Recycled plastic from PETG bottles</td>
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<tr>
<td>PVC</td>
<td>Petroleum-based</td>
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<tr>
<td>PET</td>
<td>Petroleum-based</td>
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<tr>
<td>rPETG</td>
<td>Recycled material from PETG</td>
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<tr>
<td>Composite Plastics</td>
<td>Mix of rPVC or PLA and Ocean Plastic</td>
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<tr>
<td>PETG</td>
<td>Petroleum-based</td>
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</tbody>
</table>

What materials can be used to produce payment cards?

- PET: Petroleum-based
- PETG: Petroleum-based and bio-based
- PVC: Petroleum-based
- rPET: Recycled PET
- rPETG: Recycled PETG
- PLA: Plant-based
- rPVC: Recycled PVC
- Composite Plastics: Mix of rPVC or PLA and Ocean Plastic
- Ocean Plastic: Plastics collected by ocean or ocean shore

Why not get in touch today?

Giesecke+Devrient (G+D) can help banks to build a sustainable foundation for their card production, and offer a choice of materials that make sense for their business and their customers. Whether it's sustainable, recycled petroleum-based plastic, reused sources gleaned from the ocean, or innovative new biodegradable plant-based plastics, G+D can provide the materials that make sense for your customer.

Contact us to learn more about our solutions:

- Phone: +49 89 320 30 0
- Email: info.gmd@gi.de
- Website: www.gi-de.com/en/mobile-security

G+D Supplier data

- 2 https://www.nationalgeographic.org/article/whopping-91-percent-plastic-isnt-recycled/
- 3 https://www.polystyrene.com/what-we-do/where-we-are/usa/2019/plastics-recycling-
- 4 https://www.plasticsindustry.org/why-recycle-plastics/
- 5 https://sdgs.un.org/goals
- 6 https://www.marketreportsworld.com/global-polylactic-acid-pla-market-12344166
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G+D is one of the market and technology leaders in the security sector. The company, headquartered in Munich, Germany, provides security technology and solutions with its products and services to banks, mobile network providers, automotive manufacturers, and other industrial infrastructures. Established in 1852, the company achieved sales of €2.45 billion in the fiscal year 2019 and employs 11,500 people. G+D has a presence in 33 countries.

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Learn more about our solutions and how we can help your business:

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