

# **Polychim Industrie**

**Unlocking the full potential of polypropylene**

## Polychim is Part of BIG - Beaulieu International Group



Founded in 1959  
2 B€ turnover in 2023  
100% family-owned



Specialised in Chemical,  
Industrial & Flooring solutions



Headquarters in  
Waregem, Belgium  
4.700 employees  
in 19 countries

# Beaulieu Polymers BU



## POLYPROPYLENE

- Homopolymer
- Impact copolymer
- Random copolymer



# Beaulieu Polymers BU



**POLYCHIM  
INDUSTRIE**

Rte d'Artois,  
59279 Mardyck,  
Dunkirk France

The logo for Pinnacle Polymers, featuring a red star above the word 'Pinnacle' and a red swoosh above the word 'Polymers'.

1 Pinnacle Ave, Garyville,  
Louisiana LA 70051,  
United States of America



## Polychim has exactly the right size and location



Small enough to be flexible,  
Big enough to make impact.



Strategically located near the port of  
Dunkirk in France to serve Europe.

## Why partner with Polychim?

- **Among the most reliable suppliers in the European PP industry**  
(Source: Polymers for Europe Alliance 2024 report)
- **Produces PP with one of the lowest carbon footprint in the sector**
- **Top quality customer services**  
(Source: 2024 Net Promoter Survey)
- **Well-recognised product quality and consistency in key applications such as fibre spinning, injection moulding and extrusion**
- **Flexibility and adaptability to customized customer demand and small to large co-development needs**
- **Strategically located to efficiently serve the North of Europe market** (Benelux, DACH, France, Nordics)



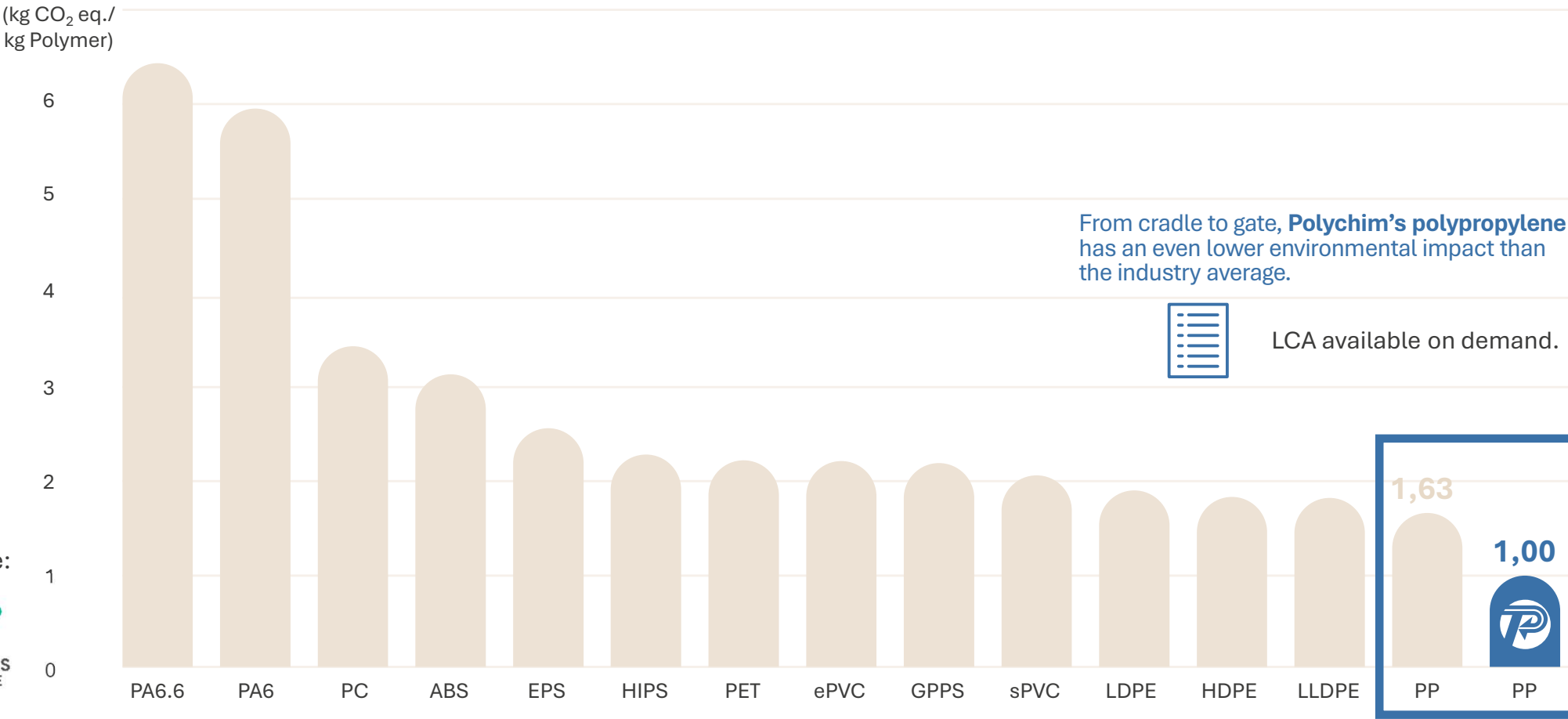
Reliable. Resilient. Always Ready.

# Low-carbon polypropylene



# Low-carbon polypropylene:

## We specialize in the polymer with the lowest Global Warming Potential



Source:

Source: <https://plasticseurope.org/sustainability/circularity/life-cycle-thinking/eco-profiles-set/>



## Why is Polychim's LCA result so low?

- Low Energy Consumption
- Electricity Grid includes Nuclear Power
- Responsible Feedstock Transportation
- Operating Efficiencies
- No Carbon Offsetting
- No PDH Propylene
- No CoGen Energy

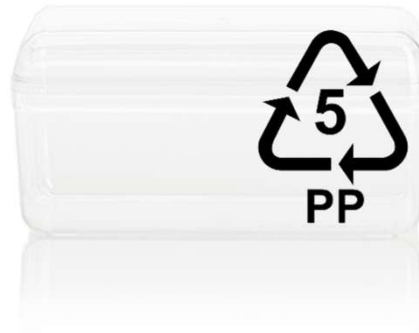







## Polychim's PP Key Markets



- Rigid Packaging
- Medical & Life Sciences
- Personal Care
- Homecare & Consumer
- Building & Construction
- Electrical & Electronics
- Agriculture
- Automotive
- Sports & Leisure

## CASE STUDY: Unlocking the full potential of polypropylene – PS replacement



<b>Recyclability?</b> <sup>[1]</sup>	<ul style="list-style-type: none"> <li>Product recyclability considered low level</li> </ul>	<ul style="list-style-type: none"> <li>Recyclable at scale</li> <li>Equal level of clarity</li> </ul>	 High recyclability
<b>CO<sub>2</sub> Equivalent</b> <sup>[2]</sup> /kg polymer	<ul style="list-style-type: none"> <li>&gt; 2.16kg</li> </ul>	<ul style="list-style-type: none"> <li>Low carbon footprint at 1.00kg PP Beaulieu</li> </ul>	 54% less CO <sub>2</sub>
<b>Material use?</b>	<ul style="list-style-type: none"> <li>85g per unit</li> </ul>	<ul style="list-style-type: none"> <li>55g per unit</li> </ul>	 35% less plastic
<b>Total reduction</b>	<b>70% CO<sub>2</sub> reduction</b>		
<b>Energy use</b>	<ul style="list-style-type: none"> <li>Higher productivity</li> <li>Lower molding energy consumption</li> </ul>		

<sup>[1]</sup> According to Recyclability according to the Ellen MacArthur Foundation definition in the New Plastics Economy

<sup>[2]</sup> CO<sub>2</sub> equivalents per kg Polymer according ISO 14040/44 and EN 15804



# nxtera

Circular Polypropylene Solutions



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# exist

## Bio attributed PP

### Bio-Attributed Polypropylene

Our bio attributed polypropylene signifies a commitment to renewable resources and reduction of CO<sub>2</sub> emissions. This polypropylene produced with circular bio attributed materials that already exist in the environment such as used cooking oil. These products have technical properties equivalent to current fossil-based virgin resins.



Bio Circular



Cracker



Raw materials



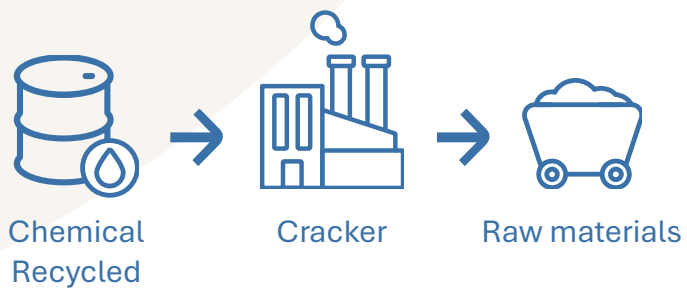
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## Chemical Recycled Polypropylene

Our chemically recycled polypropylene is derived from the chemical process that breaks down plastic waste to the molecular level. This process enables the ability to extract valuable feedstock from the plastic waste, which is repurposed to create virgin-quality polypropylene.







# Polychim Industrie

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Contact us:



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