

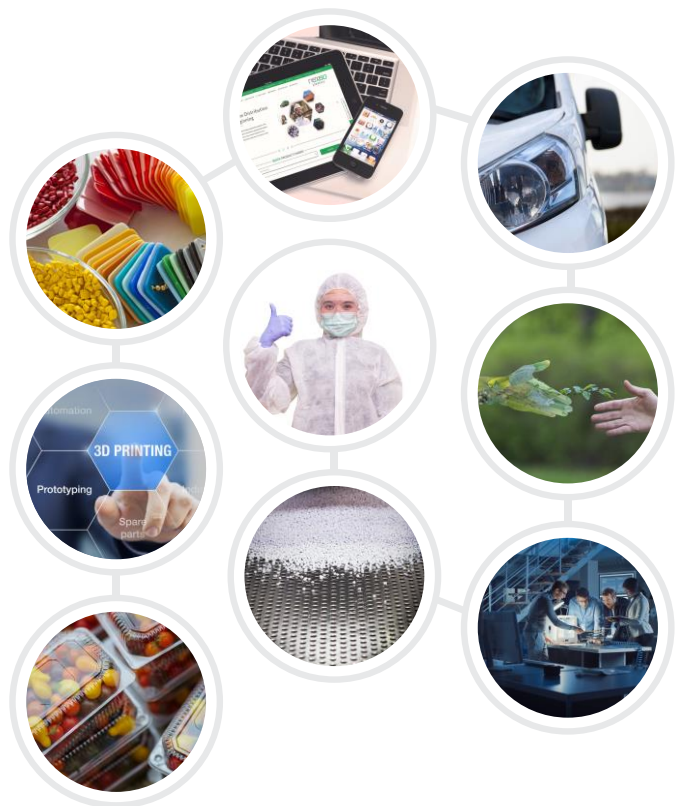


NEXEO PLASTICS



15 September 2022

Who We Are



Nexeo Plastics is a leading global thermoplastic resins distributor

Serving a global customer base **with quality products from first-class suppliers.**

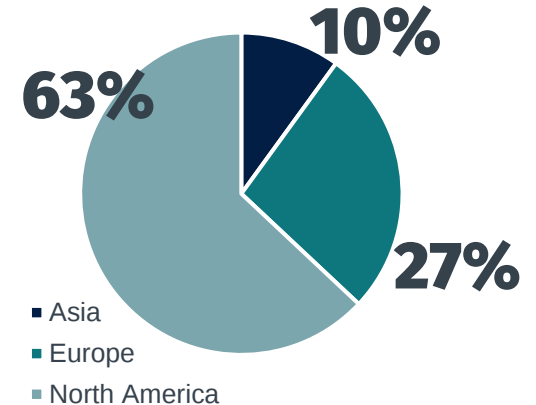
Unlocking value for suppliers and customers through **efficiency and reducing complex processes**

Where We Are



FY 2020 Sales by Region

	Regional Overview		
	AMERICAS	EUROPE	ASIA
Sales Coverage	North America	Pan-European	Central/Eastern China
#Warehouses	9 and 60 (3PL)	18 (3PL)	15 (3PL)
Fleet	140 units (private fleet) & 3PL	3 PL	3PL



NEVICOLOR: the most complete technical partner

Nexicolor is a leading Italian thermoplastic distributor and compounder that joined the Nexeo Plastics family in June 2021.

It provides Nexeo Plastics access to Nexicolor's robust offering **of tailor-made compounds, specialty polymers, lab services and recycled material, as well as its highly technical and analytical specialization in the industry.**

SOME NEVICOLOR PRODUCTS...



Food contact certified

New range of products designed in compliance with norm EU 10/2011 and FDA, in accordance with GMP



Precision molding

Very high fluidity and dimensional stability for molding with superior precision



ISO 10667 Certified

Recycled thermoplastic granulates with low environmental impact and reduced CO2 emissions



Certificates by sector medical

ISO certifications 10993 and USP VI for the medical market



Supertechopolymers

Very high mechanical performance. Available with carbon fiber, PTFE, Silicone, Barium Sulphate

And more...

Plastanalisi® High-level Analysis of Plastics

PLASTANALISI® is a Plastic Testing Laboratory able to carry out accurate composition analyses, mechanical tests, thermal and functional tests of plastic components.



10 plus years of experience



Over 1000 satisfied customers



Over 2000 analysis



5 days average delivery time for analysis results



ISO90011 Quality Certification

MAIN ITALIAN PRODUCT LINE CARD

nexeo[®]
plastics



OUR SUPPLIERS

AsahiKASEI



DUPONT



KINGFA

beyond
the best
KUMHO PETROCHEMICAL

lyondellbasell





Progress beyond

Bringing More Sustainable Solutions to Consumer Appliances

Federico Baruffi

Smart Plastics 2022 - September 15th 2022



Agenda

Our Commitment to Sustainable Progress

How our materials can support your sustainability targets

Real world applications case studies

Q&A

01

A



Solvay Materials

Our Commitment to Sustainable Progress

Solvay Today

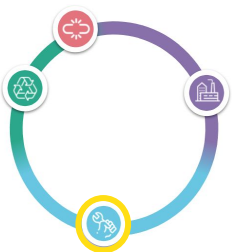


We are a **science company** whose technologies bring benefits to many aspects of **daily life**.

Our **innovative solutions** contribute to safer, cleaner, and more sustainable products found in homes, food and consumer goods, planes, cars, batteries, smart devices, healthcare applications, water and air purification systems.

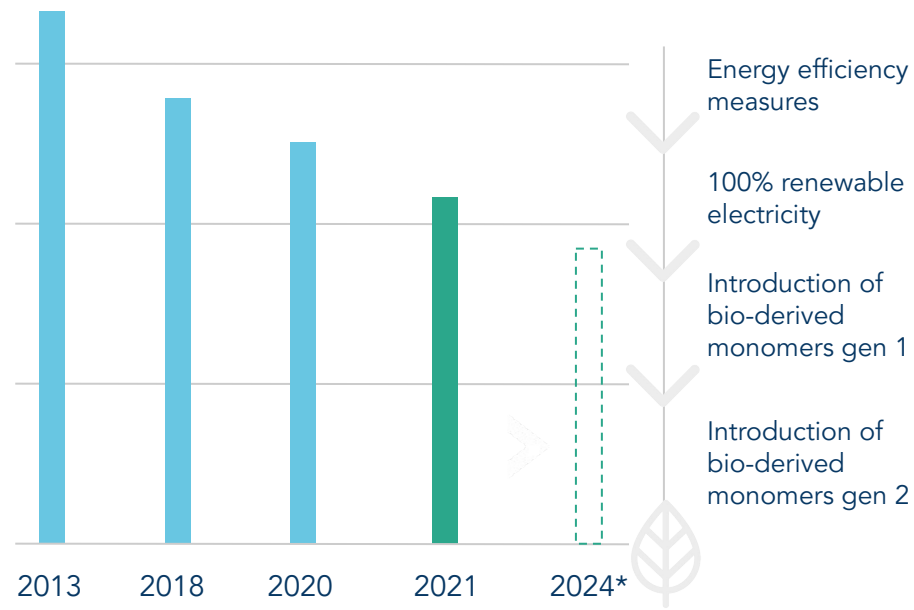
Our Group seeks to create **sustainable shared value for all**, notably through its Solvay One Planet plan crafted around three pillars: protecting the climate, preserving resources and fostering better life.





Carbon Footprint evolution for Amodel® PPA

GWP expressed in CO₂ eq./kg of Amodel® PPA



*expected improvement



Carbon footprint of our Amodel® PPA was reduced by 30% between 2013 and 2021



Solvay Materials Solutions

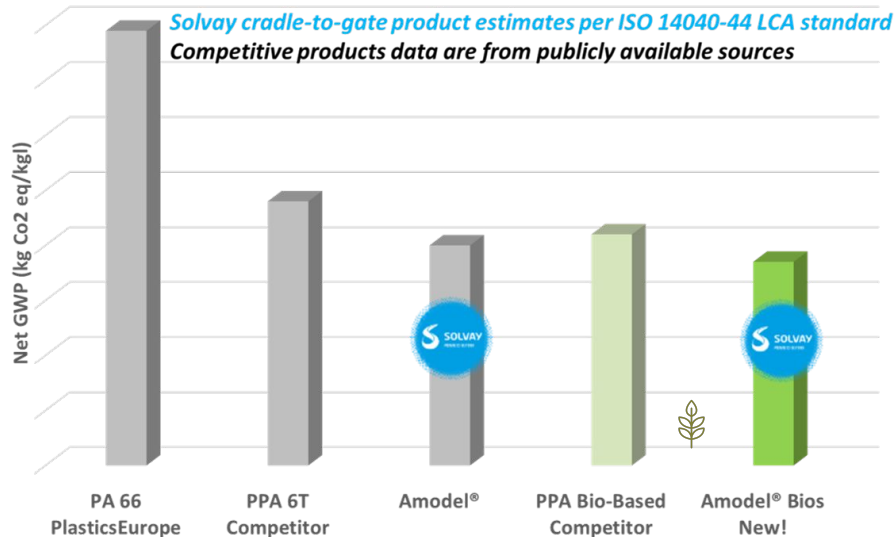
Sustainability without compromise on Performance



Amodel[®] BIOS



- Partially Bio-sourced (Lower GWP than 6T PPA)
- Bio-based resin from non-food competing feedstock
- Resin produced with 100% Renewable Electricity
- Highest T_g (135°C) among Bio-based PPA
- Lower Moisture absorption than 6T PPA
- High elongation & weldline strength
- Dimensional Stability & Chemical resistance

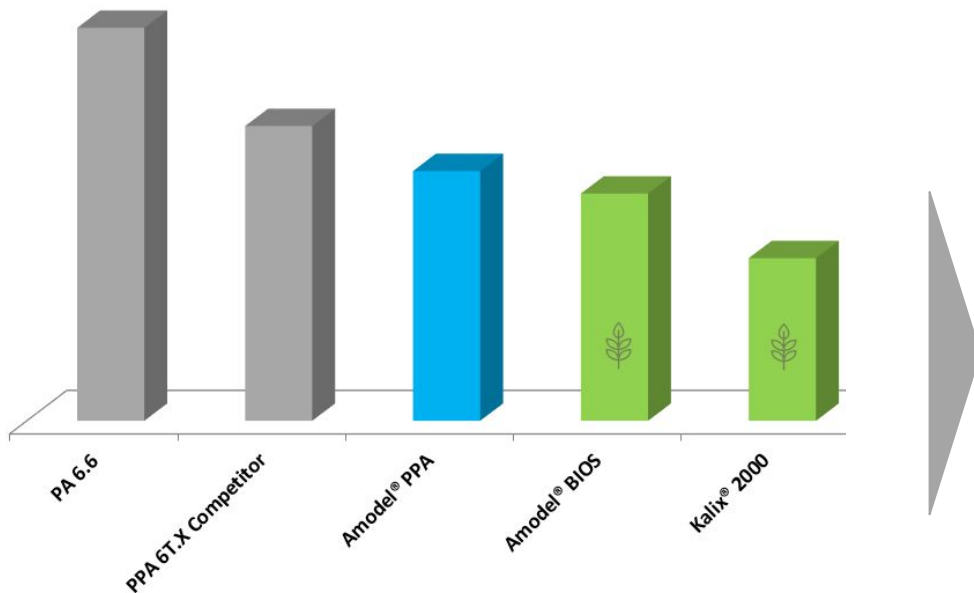


Lowest
GWP
among
PPAs

Up to -14% GWP Reduction vs. standard PPA



Net GWP (kg CO2 eq/kg)



Kalix® 2xxx Series

HPPA variant - the structural material with optimal combination of:

- strength,
- stiffness,
- aesthetics,
- low moisture pick-up,
- bio-based content (made from castor bean oil)
- produced from 100% renewable electricity.



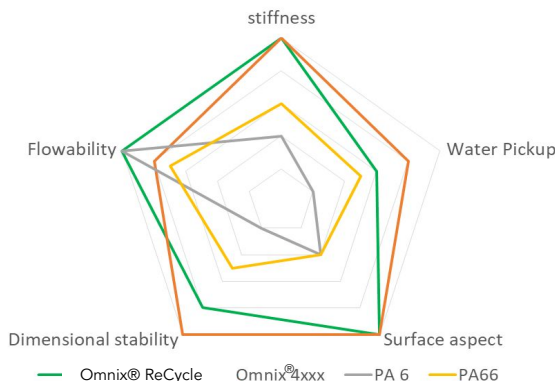
Omnix[®] ReCycle HPPA



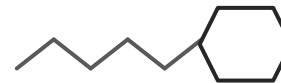
PA6 & PA 6.6

Standard Performance

- Chemical resistance
- Good mechanical performance
- Good heat resistance
- High moisture absorption



Solvay Materials towards more Sustainability in Consumer Appliances

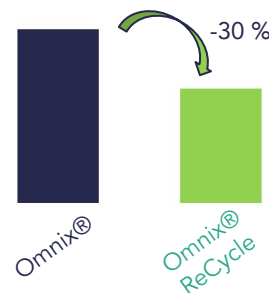


Omnix[®] ReCycle HPPA

Best of PA 6 and 6.6 plus...

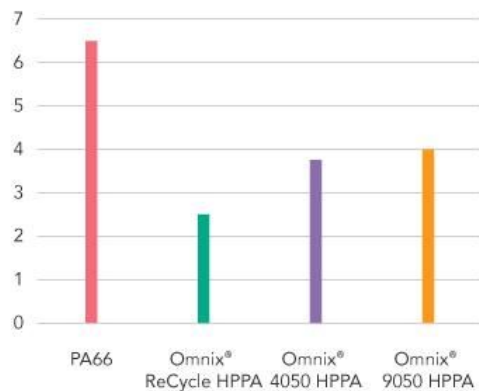
- Better mechanical properties
- Lower water absorption
 - Better dimensional stability
 - Better retention of mechanical properties
- More aesthetic surface appearance

GWP (kg CO₂ eq/kg)

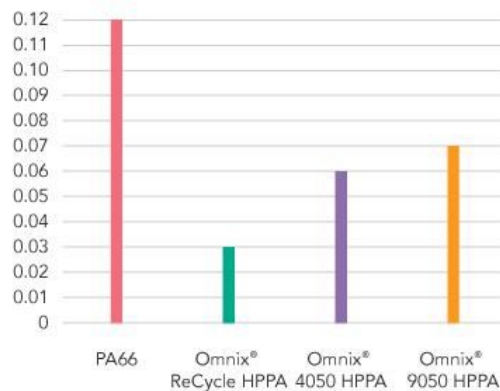


Omnix[®] ReCycle HPPA

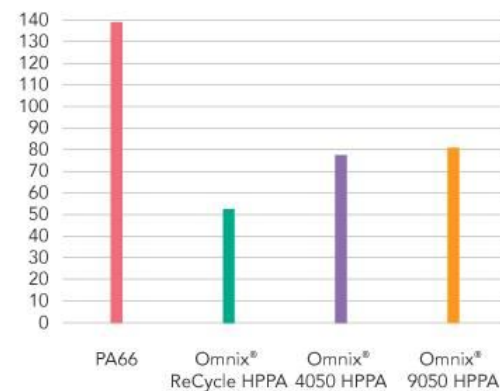
Improved Eco-Profiles for Better Sustainability



Net Global Warming Potential
(kg CO₂ eq/kg)



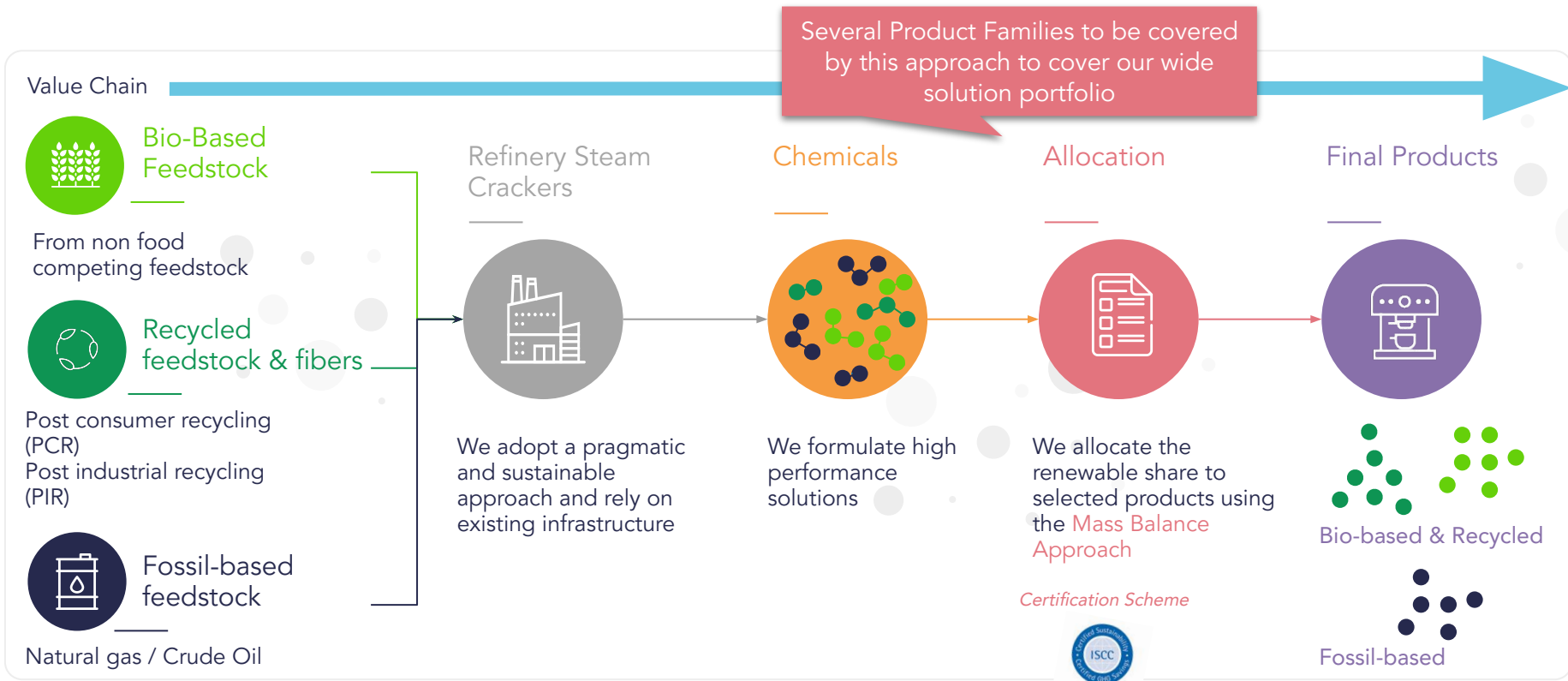
Water Consumption
(m³/kg)



Non-renewable Energy Consumption
(MJ/kg)



The mass balance approach



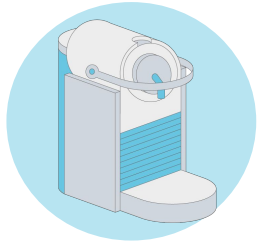


Sustainability & Circularity in Action

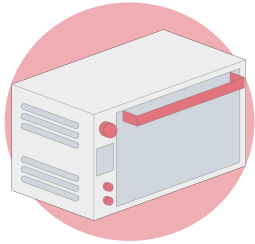
Case Studies

Where Omnix® ReCycle can bring value and competitive advantage

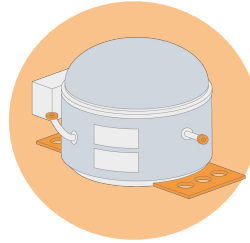
Some examples in the Consumer Appliances Market



Coffee makers
(Both Drip &
Single serve types)



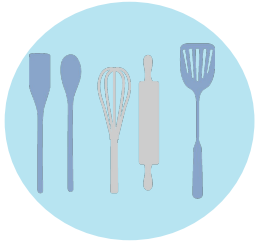
Microwaves



Compressors
(refrigerators)



Ovens & Air Fryers



Kitchen Utensils



Food processors &
slow cookers

Key benefits
compared to PA6 and PA6.6

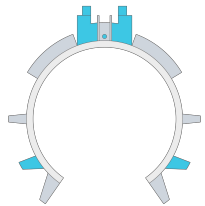
- Better mechanical properties
- Lower water absorption
 - Better dimensional stability
 - Better retention of mechanical properties
- More aesthetic surface appearance
- Lower GWP
- Recycled resin content up to 70%



Omnix® ReCycle for Coffee Machines



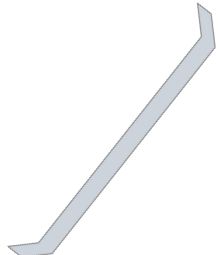
Support Frame



Omnix® ReCycle:

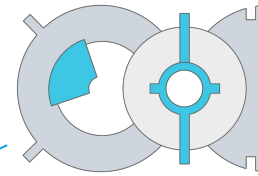
- High stiffness
- Easy to mold
- Lower moisture absorption vs standard PA
- Low GWP

Front Exterior Part



Omnix® ReCycle:

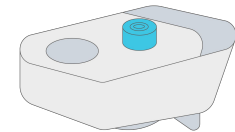
- Excellent surface quality
- High flowability
- High stiffness
- Low GWP



Gear Box

Omnix® ReCycle:

- High stiffness
- High dimensional stability
- Outperforming standard PA
- Low GWP



Capsule holder

Omnix® ReCycle:

- Excellent surface quality
- Easy to mold
- Outperforming standard PA
- Low GWP



Omnix® ReCycle for Kitchen Robots and Food processors



Kitchen robot chassis

Replacing

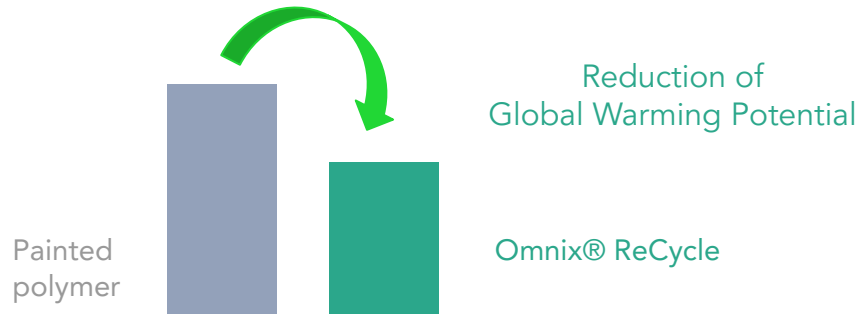
- Aluminium dies cast
- Painting on plastic



Solvay Value Proposition

Omnix® ReCycle offers a unique combination of performances:

- high stiffness (50% Glass Fibre)
- colorability and surface appearance (no painting)
- meeting cost & sustainability targets



Questions?



Progress beyond



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Technical Development Engineer

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