




**interzero**<sup>®</sup>  
zero waste solutions

# We manage **plastics** in a **closed loop**

Experts in plastics recycling

A portrait of Dr. Axel Schweitzer, a middle-aged man with short, light brown hair, wearing a dark blue suit jacket over a white button-down shirt. He is standing with his hands on his hips, looking directly at the camera with a slight smile. The background is a blurred industrial or office setting. A large yellow arc is positioned behind him, and a blue circle in the upper left contains text.

“Our vision is  
a **world without waste**.  
A world worth living in  
today and for the  
generation of tomorrow.”

Dr. Axel Schweitzer  
Chairman and  
Shareholder

# Together for a world without waste

Closing loops, creating added value: As one of the leading service providers for closed-loop solutions, we support our customers in preventing waste, securing raw materials and improving their sustainability balance. Our name highlights the main agenda behind our company. We are internationally active with our zero waste solutions, as summarised by our name, Interzero.

Our company has more than 30 years of experience in the development and implementation of needs-based waste management and recycling solutions. Following our foundation in 1991, we initially focused on pioneering work for the recycling of

packaging waste. Today, we are innovation leaders in holistic plastics recycling, and set new standards with sustainable closed-loop solutions. Our vision is a world without waste – with our “zero waste solutions” concept, we contribute actively to the protection of our climate and resources.

Benefit from our longstanding experience, our comprehensive expertise in plastics recycling, and our new ideas for a circular, future-proof economy. We are your strong partner for all aspects of plastic recycling: from licensing and sorting, processing and trading through to the development and production of high-grade recyclates.



## Interzero Recycling Alliance

# Taking the circular economy to the **next level!**

The Interzero Recycling Alliance is a **leading dual system** that looks beyond conventional licensing, sorting and recycling methods for used packaging. Our approach is based on shaping the **raw material cycles of the future** and giving our customers supply and future security.

Learn more about  
Interzero Recycling  
Alliance:



### Packaging licensing

Licensing packaging is the first step. As experts in packaging licensing, we are active not only in Germany and Europe, but also worldwide wherever new legal frameworks require action. We take over the entire licensing management for you to keep you fully compliant all the time.

We work closely with our centre of competence for plastics recycling to offer comprehensive advice on developing and using high-grade, customised recyclates.

Learn more about the  
Competence Centre:



### Competence Centre for recycled plastics

The innovations which allow us to stand out from the competition are created at the Competence centre in Maribor, Slovenia. Customers can access the know-how of our Competence Centre and the comprehensive technical facilities for material analysis as well as for the development of innovative, individual plastic recyclates. Our laboratory is certified according to EN/ISO 17025 and is the only recognised research institution in the EU specialising in the development and analysis of recycled plastics.

### Packaging optimisation

We also help make your packaging as sustainable as possible with our recognised testing procedure "Made for Recycling" and offer advice on eco-friendly design.

Our services can either be used individually or as an integral part of a comprehensive overall package as part of a strategic partnership.

### Stronger together

As a partner of Interzero Recycling Alliance, you benefit from access to high-grade recycling raw materials based on your licensed packaging quantities. This gives you resource security and adds your packaging to a traceable cycle for verifiable climate and resource protection.

Companies that decide to become strategic partners are pioneers in the field. Together with us, they work towards sustainability and next-level recycling, fulfilling and going above and beyond the requirements of the national Packaging Act.



### Certified quality

Our long list of certifications reflects our goal to provide our customers with top quality products and services while minimising the impact of our activities on the environment.

#### Extract from our certifications:

- ISO 9001: We relentlessly strive for quality and customer satisfaction and adhere to the strict quality standards in all aspects of our business to ensure that you always receive the best possible products and services.
- ISO 50001: We continuously optimise our energy performance and reduce our environmental footprint to help protect the environment.
- ISO 14001: We are committed to continuously improving our contribution to the environment and reducing the environmental impact of our activities across all business units.
- EN/ISO 17025: This certification demonstrates our competence and precision in testing and calibrating laboratories. You can rely on the credibility and accuracy of our findings to meet all your requirements.
- REACH: We guarantee that our products adhere to the strictest standards when it comes to protecting human health and the environment. We actively work on reducing the number of hazardous chemicals used and promise that our products are safe and environmentally friendly.
- RecyClass: By joining the RecyClass initiative, we have reinforced our commitment to promoting plastics recycling and developing eco-friendly packaging solutions. This certification reaffirms our efforts to promote the circular economy and use sustainable materials.
- EuCertPlast: Our company has a clear goal: promoting plastics recycling and reducing the related environmental impacts. This certification highlights our commitment to achieving a sustainable circular economy and shows that we handle plastics in a responsible manner. Thanks to the support of EuCertPlast, we are doing our part to promote the use of recycled plastics and reducing the environmental impact of plastic waste. Our customers can rely on the fact that our products are not only high quality; they also help protect our environment.
- Efb certificate: As a certified disposal company, we uphold the highest standards when it comes to waste management and disposal. We use state-of-the-art technologies and proven processes to ensure that all waste is collected, transported, treated and disposed of in line with local regulations.

## Interzero Plastics Recycling

# Innovative plastics recycling – 360 degrees

Interzero stands for comprehensive circulation solutions. Interzero Plastics Recycling pools our expertise in plastics recycling. This business unit combines **highly-specialised services** and competencies – and is a sought-after contact for efficient, sustainable **closed loops for plastics**.

From intelligent collection systems and high-tech sorting plants to the production and marketing of quality-tested regranulates and recomponds: As an “innovation leader” in plastics recycling, we cover all processes, technologies and consulting services.

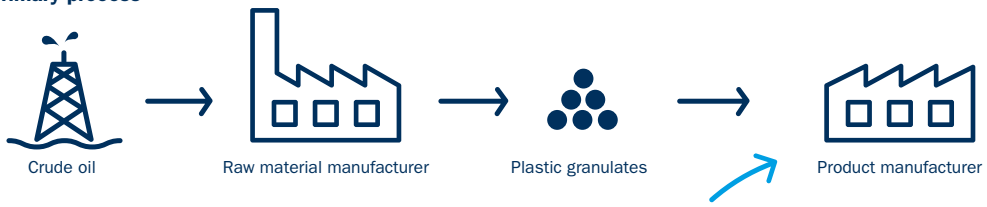
### Our range of services encompasses:

- **The collection of high volumes:** Waste plastics from commerce and local authority waste streams are processed by us.
- **Development and operation of sorting and production systems:** Our sorting capacities and technologies make us one of the market leaders in Germany.
- **Established processing technologies:** With our own innovative processes, we make customised recyclates and recomponds available for a variety of applications in industry.
- **Marketing of plastic fractions and recyclates:** Our customers benefit from a wide-ranging national and international trading network.
- **Competence Centre for recycled plastics:** For plastics analysis and the changeover of materials to recyclates for products and packaging, our customers are able to draw on the know-how of what is presently the only accredited laboratory in Europe – situated in Maribor, Slovenia.



Sorting – Processing – Trading

**Primary process**



**Recycling process**



Sorting – Processing – Trading

# High-tech on the sorting lines

The first step in our value chain is the **sorting of waste streams**. We invest in the latest sorting technologies on a continuous basis, expand our capacity, and ensure a stable output quality. In this way, we enable the dual systems in Germany to achieve their recycling rates – and **generate raw materials** for the world of industry **according to demand**.







On the basis of established contracts, Interzero has access to materials such as PP, HDPE, LDPE, PET and PS from the post-consumer (household and commercial) sector.

We are the leading supplier of sorting services for lightweight packaging (LWP) and mixed recyclables throughout Europe. Adapted to the requirements of our customers, we process volumes from the collections of the dual systems in Germany and materials from neighbouring European countries. With a total capacity of more than 800,000 tonnes, we are the largest sorting company for LWP waste in Europe.

#### Intelligent automation

At our five sorting plants in Germany, we use state-of-the-art digital technologies and drive the automation of processes forward. One of the technologies we work with at our sorting plants is near-infrared spectroscopy (NIR): NIR cameras scan between the conveyor belts and distinguish between the different plastic fractions in a split second. This creates groups of substances with a homogeneity of at least 90 per cent.

In addition to this, the sorting of LWP already benefits from the use of artificial intelligence and sensor technology. Interzero tests sorting robots, for instance, and uses a deep-learning system which clears disruptive silicone cartridges from the stream of plastics with a high degree of precision.

#### Access to a wide range of plastics

The goal of our work is to secure the valuable recycled raw materials as efficiently as possible, to further improve the quality, and to support our customers with their fulfilment of the increasingly strict legal requirements. On the basis of established contracts, Interzero has access to materials such as PP, HDPE, LDPE, PET and PS from the post-consumer (household and commercial) sector. Our international activities also help to ensure that the flow of waste plastics does not stop – and that we can ensure the sustainable closed-loop circulation of different grades.

More about sorting:

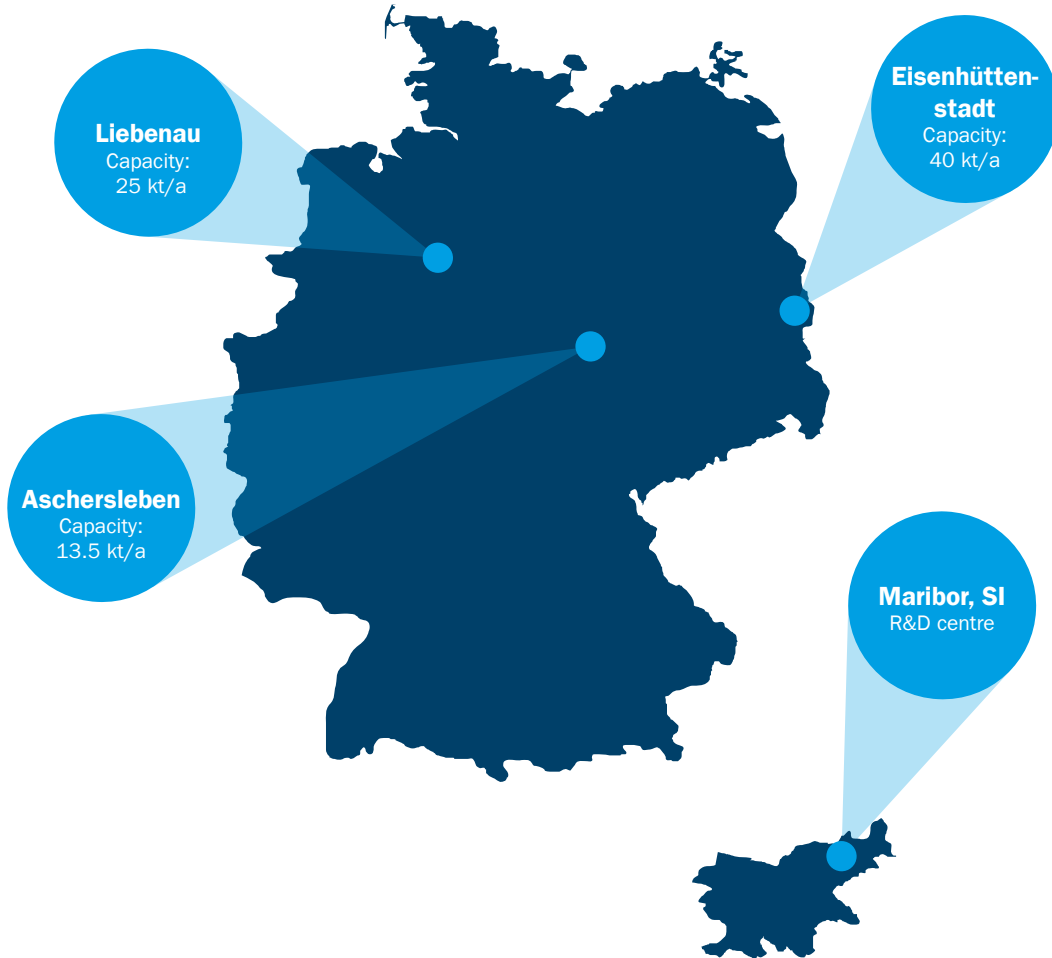


Sorting – **Processing** – Trading

# Processing in line with your requirements

With our own plants and innovative preparation processes, we close the loop for used plastics. From the efficiently sorted materials we create **marketable recyclates**, which are already replacing primary plastics made from crude oil in many areas – and thereby contribute to climate and resource protection.





We are able to provide regranulates and re-compounds in specific grades for a wide range of applications.

### From traditional applications to food-grade materials – Interzero covers the entire scope of recycling.

At our processing plant in Eisenhüttenstadt, using our award-winning process, we manufacture the recycled plastics Recythen and Procylen. By melting and compacting the introduced plastics, high-grade recycled plastics are produced, which can be adapted individually customised to the requirements of industry. While the plastic grades HDPE and PP are processed in Eisenhüttenstadt, the plant in Liebenau specialises in LDPE and PP PIR grades as well as food-grade rPET, and the plant in Aschersleben specialises in EPS processing. This enables us to provide regranulates and recompounds in specific grades for a wide range of applications.

### Wide range of technical applications and specifications

Our recyclates are used in a wide range of industries. Whether it is non-food packaging, construction applications, household products or the supply chain – Interzero is a reliable partner when it comes to providing sustainable raw materials for plastics-based products. With the new EFSA certified PET recycling plant in Liebenau, Interzero has expanded its portfolio in the food-grade sector to close additional loops in-house. Thanks to the many years of experience and expertise of our employees at the various processing locations, we offer formulations with a wide range of specifications to meet the needs of our partners.

New formulations for our recyclates or technical innovations are developed in the Competence Centre for recycled plastics.

Learn more about processing:



Sorting – Processing – **Trading**

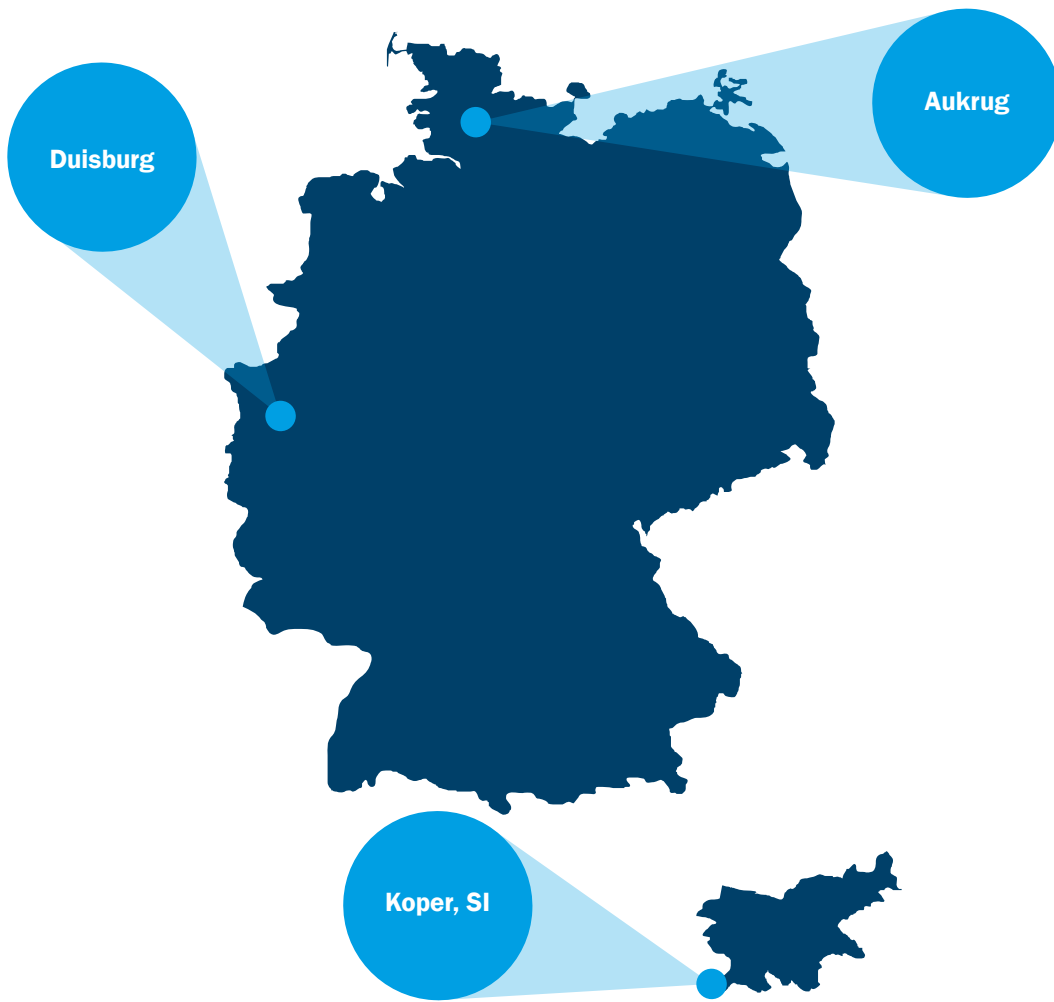
# Reliable supplier of recycling raw materials

Optimally networked in the retail trade of recyclable materials: We have several years of experience in the purchasing and distribution **of all types of plastic waste streams**. This means we can offer our customers genuine added value – and support the industry in reducing the dependence on fossil resources.



Learn more about  
recyclable material  
trading:





Whether it is lightweight packaging, styrene, rigid plastics or other types of plastic waste: You can be certain to rely on the IPR retail specialists and their global distribution network. They secure the necessary volumes from the waste streams for our production locations as well as the production of the recyclates. In this way, they create the basis for supplying our customers with high-grade and needs-based recycled materials.

#### **Availability in consistent quality**

Our aspiration: We supply the necessary materials as required and “in time”. We ensure the availability of our products in consistent qualities through our long-term relationships with leading stakeholders in the food retail trade and the recycling industry.

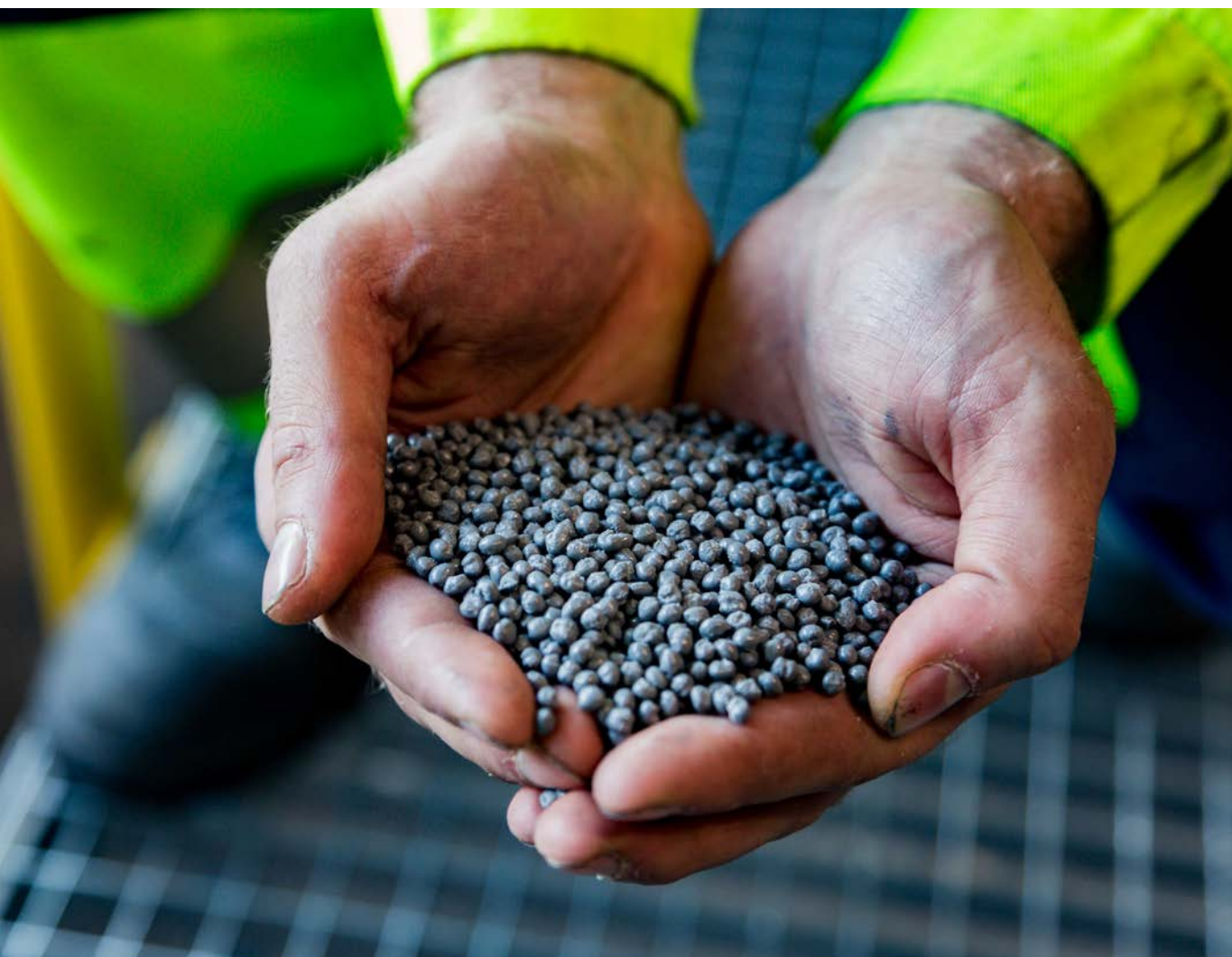
As reliable partners in the value chain for plastics, we think beyond the boundaries of conventional waste management – and use our know-how to close plastic loops more effectively for the benefit of both businesses and the environment.



## Products

# The full range – for your requirements

Whether it is bale goods, palletised plastic types from the post-consumer sector, or regranulate and recompounds: We offer a **wide product range of recycled plastics** in a variety of different fractions and specifications.



In our products, we generally distinguish between the “post-consumer commercial (PCR-C)” and “post-consumer household (PCR-H)” grades. In the PCR-C category, we group together all of the grades from industrial feed-in (production of household goods); PCR-H consists of waste streams from private households (yellow bag/yellow bin) as well as “post-industrial” streams sourced from industrial partners.

Whether you require bales or granulates, processed waste from private households or from industrial streams: Interzero Plastics Recycling is a competent partner to the processing industry – and develops its product range according to the market requirements on a continuous basis. **We are already able to serve both extrusion and injection moulding applications as well as blow moulding applications.**

We have put a simplified overview of our product range together for you here.

Detailed information is available on our website. Our experts will also be happy to answer any questions you may have about sustainable and customised recycling and closed-loop management.



Polymer group	Material	Grade*	Packaging type
<b>LDPE</b>	LDPE film (98/02 – 50/50)	PCR-C	In bales
	LDPE film (DKR 310-0)	PCR-H	In bales
	LDPE regranulate (different specifications)	PIR	Palletised
	LDPE regranulate	PCR-C	Palletised
<b>PP</b>	PP (different varieties)	PCR-C	In bales
	PP film reel	PIR	Palletised
	PP regranulate (different specifications)	PCR-C	Palletised
	recythen®	PCR-H	Palletised
	procyklen®	PCR-H	Palletised
	PP film	PCR-H	In bales
	PP rigid	PCR-H	In bales
	PP black	PCR-H	In bales
	PP regranulates (different specifications)	PIR	Palletised
	<b>HDPE</b>	HDPE hollow containers and drums	PCR-C & PCR-H
HDPE rigid		PCR-C	In bales
HDPE regranulate (different types)		PCR-H	Palletised
recythen®		PCR-H	Palletised
<b>EPS</b>	PS (different specifications)	PCR-C	Palletised
	PS regranulate	PIR	Palletised
	PS planters	PCR-C	In bales
	PS bowls clean	PCR-C	In bales
	PS	PCR-H	In bales
<b>PET</b>	PET strapping	PCR-C	In bales
	PET bottles	PCR-H	In bales
	PET flakes	PCR-H	Palletised
	rPET (PET regranulate- different specifications)	PCR-H	Palletised
	Mixed PET 80/20	PCR-H	In bales
	PET blister	PCR-H	In bales
<b>Other</b>	Tetra, PPK, tinplate	PCR-H	In bales

You can find an overview of our products here:



\*PCR-C = Post Consumer Recyclate-Commercial / PCR-H: Post Consumer Recyclate-Household / PIR: Post Industrial Recyclate

Would you like to learn more about solutions and products from Interzero in the field of plastics recycling? Talk to us.

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WINNER



German  
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