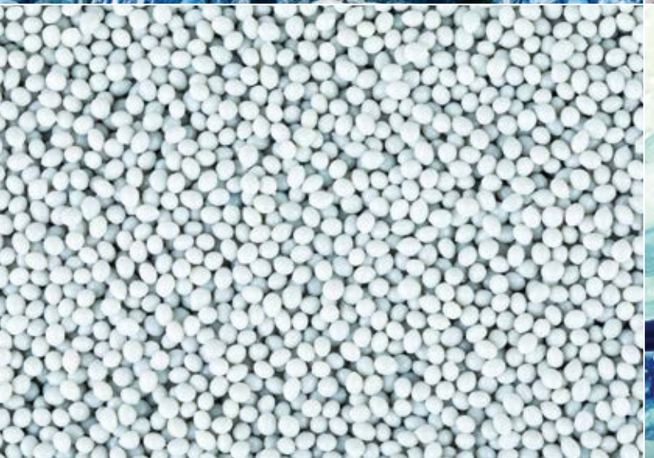

Reiling
Group
PET
RECYCLING









FACTS

REILING – WITH US YOU CLOSE THE LOOP

The Reiling Group is a recycling specialist in Germany for glass, plastic, wood and photovoltaic modules. The production and marketing of glass powder, foam glass gravel and Revitro are also part of the Reiling Group's portfolio.

As a family-run recycling company, we have been committed to the conservation of natural resources as well as environmental and climate protection for more than 100 years by returning valuable raw materials to their cycles.
We advise, collect, store, recycle, manufacture and conceptualise. We offer collection systems ranging from containers to mobile PET presses, a high-performance vehicle fleet, professional logistics and, of course, the most modern processing technology in Europe.

Since Reiling Kunststoff Recycling GmbH & Co. KG was founded in 2005, we have been on a growth course: With two state-of-the-art PET recycling sites in Hamm-Uentrop, North Rhine-Westphalia and Burgbernheim, Bavaria, we produce high-quality PET flakes and PET pellets for a wide range of applications. With our strong network of locations, we are always at your service.



PET – FROM RECYCLABLE MATERIAL TO PRODUCT

We offer our partners a reliable and comprehensive solution in the field of PET recycling that is unique in Germany. From collection and processing to the provision of high-quality recyclates, we ensure a closed material cycle.

For PET bottle collection, we offer our customers comprehensive, individual solutions tailored to their needs. We use a wide variety of models: from containers, PET presses and mobile briquetting presses to stand-alone solutions. With our specialised transport network, we find suitable solutions. On-demand collection is of course also possible!

For the subsequent processing of the PET bottles, we rely on sophisticated plant technologies. With the help of our highly specialised recycling processes, we ensure a high degree of purity in our PET flakes and PET pellets.

Laboratory analyses check and guarantee the quality of our PET flakes and our PET pellets.
Delivery is usually made in so-called big bags. For clear and coloured PET flakes and pellets, silo delivery is possible.

WE COLLECT, CHECK AND RECYCLE

With more than 20 years of experience in PET recycling, we are dedicated to this task with the utmost commitment and technical expertise. We support water bottling plants, discounters and retailers in Germany and abroad in the collection and processing of PET bottles. A majority of our PET volumes have grown through framework agreements and long-term customer loyalty.

PROCUREMENT OF PLASTICS



Origin of PET material

A majority through framework agreements and long-term customer loyalty

RECYCLING OF PET-BOTTLES

RecyClass RECYCLING PROCESS EN 15343

SPECIALISED PROCESSES. HIGH-QUALITY END PRODUCTS.

The PET bottles collected via deposit systems or recycling collections are fed into our state-of-the-art PET recycling process.

In the first step, impurities are rejected, then sorted by colour. After sorting, the PET bottles are ground into PET flakes. This is followed by sorting using density separation before any remaining contamination is reliably rejected using a caustic soda hot washing system. A final drying process, including flake sorting, completes the fully automated recycling process.

The products are delivered in big bags or silos according to customer specifications. Our end products are high-quality PET flakes with the status "Ready for Decontamination Output" (RecyClass Module A1), which pass comprehensive quality tests and can be processed into food-grade PET pellets.

The PE/PP cap regrind obtained in the recycling process has the same product status as the PET flakes. Beverage cans that are part of the deposit system are sorted out and pressed into aluminium bales in a separate recycling process and supplied to industry accordingly.



AREAS OF APPLICATION

- PET bottles 'bottle to bottle'
- Trays
- Blister packaging
- Packaging strapes
- Polyester films
- Textile fibres

WE TEST FOR:

- Particle size
- Bulk density
- Moisture
- Intrinsic viscosity (iV)
- Foreign plastics
- Colour defects
- Contaminants

PRODUCTION OF PELLETS

HIGH QUALITY. FOOD SAFE. LEGALLY COMPLIANT.

Our recycled PET flakes (RecyClass Module A1) are processed using innovative and highly specialised recycling technology from Next Generation Recyclingmaschinen GmbH (NGR) into high-quality PET pellets (RecyClass Module A2) for food contact products in accordance with EFSA and FDA regulations.

In contrast to conventional processes, the cleaning (decontamination) of the material takes place in the liquid phase.



PROCESS ADVANTAGES :

- Continuous process
- Fast iV build-up
- Automatic iV control
- High decontamination performance
- High energy efficiency
- FDA and EFSA approval for 100% food contact



WE TEST FOR:

- Pellets size
- Bulk density
- Moisture
- Dust
- Intrinsic viscosity (iV)
- L*a*b* colour values
- Volatile substances (acetaldehyde, benzene, etc.)



OUR ENDPRODUCTS

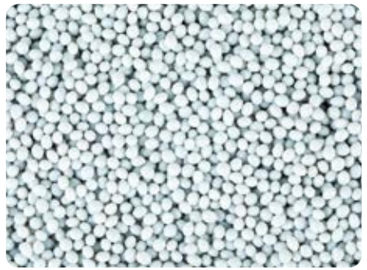
Our recycling process results in the following material fractions:



PET flakes clear



PET flakes coloured



PET pellets



PE/PP cap regrind



Aluminium bales

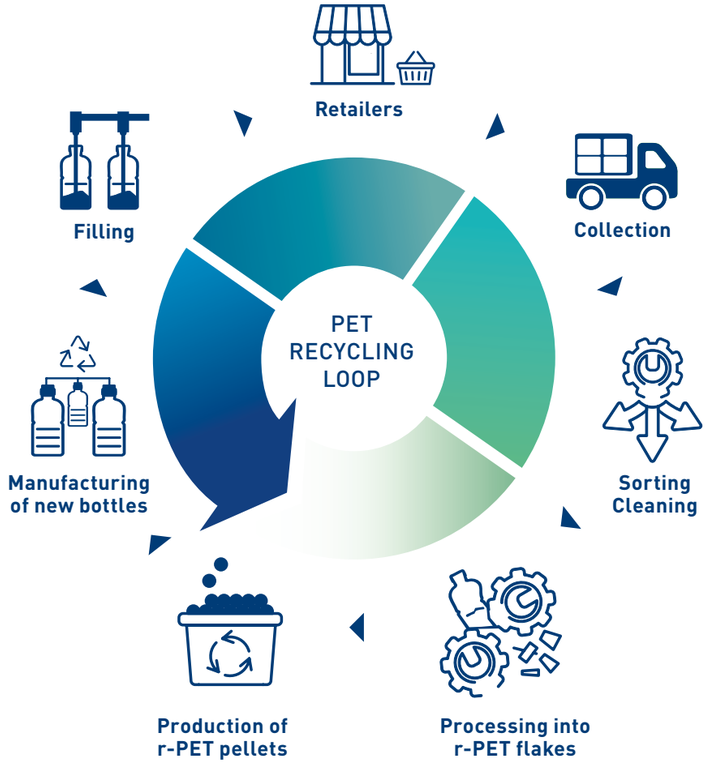
HIGHEST QUALITY

BEST POSSIBLE QUALITY FOR OUR CUSTOMERS

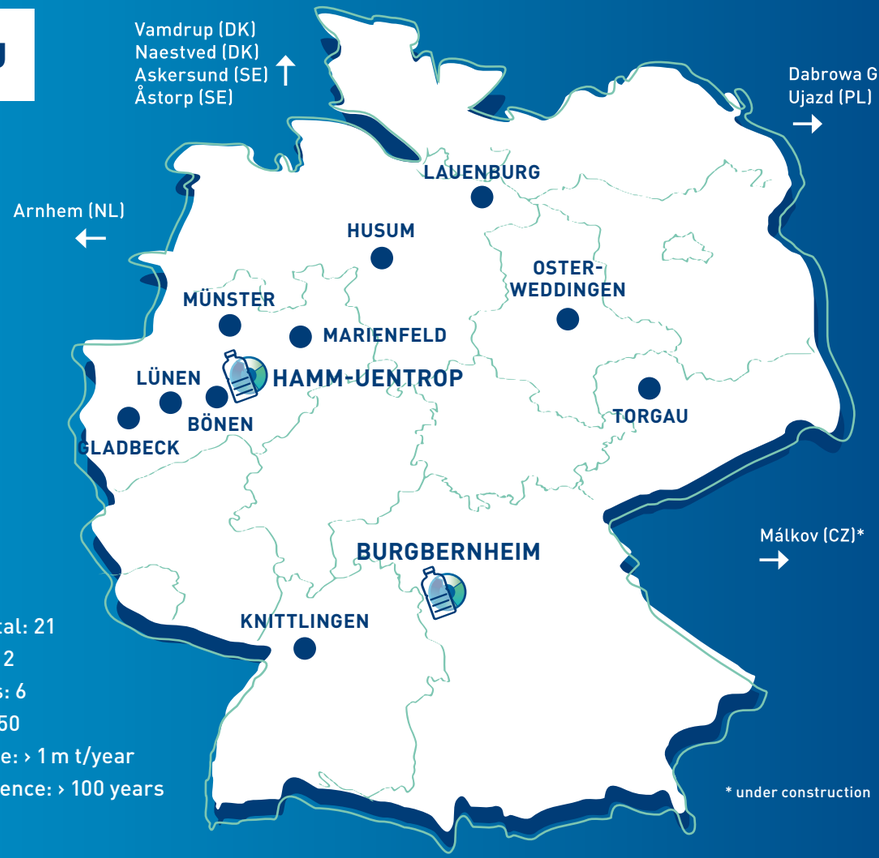
We can offer our customers secondary raw materials of high purity and quality.

Regular laboratory analyses ensure high quality standards. Through the application of our recyclates, CO_2 emissions are saved.

Thanks to our innovative recycling solutions, we will remain a strong and reliable partner for our customers and buyers in the future.



Reiling Group



Locations in total: 21
Locations PET: 2
Business areas: 6
Employees: › 650
Quantity volume: › 1 m t/year
Years of experience: › 100 years

* under construction



LOCATIONS PET

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burgbernheim@reiling.de | www.reiling.de
Phone: +49 (0) 9843 93593-0

FAMILIAL
SOCIAL

INNOVATIVE
FUTURE-ORIENTED

COMPETENT
GROUNDED

RESPONSIBLE
FAIR

CONSCIOUS
ECO-FRIENDLY



VALUES OF REILING GROUP



Sustainability equals the future to us.

This is what we at Reiling Group are committed to. We see environmental and climate protection as an important task and take this into account in corporate decisions.

Protecting the environment and using natural resources sparingly depend on the commitment of every single employee and are firmly anchored in our business policy and corporate philosophy. Where possible, we rely on renewable energies within the company and implement organisational and technical measures to avoid or minimise environmentally harmful emissions, waste and wastewater. Our environmental management and energy management systems also demonstrate our sense of responsibility towards the environment and the efficient use of resources (DIN EN ISO 50001 and DIN EN ISO 14001 certification).

TRUST

CERTIFIED DISPOSAL SAFETY

We stand for quality and reliability.
As a partner in PET disposal, we are subject to continuous, neutral inspections to ensure that we meet the required quality standards.

We are certified:
Efb Certification
Quality Management DIN EN ISO 9001
Environmental Management DIN EN ISO 14001
Energy Management DIN EN ISO 50001
RecyClass Module A1
RecyClass Module A2
VerpackG

RecyClass RECYCLING PROCESS EN 15343



Certified processing and final recipient facility for the recycling of used plastic packaging in accordance with LAGA M37/Verpack/V

Materials management. Recycling.

WITH US YOU CLOSE THE LOOP.



Headquarters Reiling Group, Marienfeld.

Reiling
Group

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