GCR

Innovating
our sustainable
tomorrow

Rigid Packaging

High-Performance Sustainable Plastic Solutions

We are GCR

Innovating our Sustainable tomorrow

GCR develops and produces high-performance, sustainable plastic solutions, serving brand owners and plastic processors in search of **recycled and recyclable plastics** and **mineral-based compounds.**

We unlock value for our partners, enabling their **growth** and enhancing their market position thanks to our firm commitment to **innovation** and **sustainability.**

As a result, our materials are more environmentally friendly, **lowering carbon footprint and reducing virgin plastic use without relinquishing the features and performance expected from virgin plastic.**

Get to know us

A global benchmark

Founded in
2001

Production facilities
2 production plants
La Bisbal del Penedès,
Castellet i La Gornal

Headquarters
La Bisbal del Penedès
Tarragona (Spain)

+300 Employees
24 nationalities

Production Capacity
+500.000 MT/y

International presence
+100 countries
Europe/ Asia/ America/ Africa

Get to know us

Your partner for sustainable solutions

LEADING PRODUCTION CAPACITY IN EUROPE

- 425,000 mT/y compounds.
- 130,000 mT/y pre-consumer & post consumer.
- 20+ years of experience.
- Operational efficiency from strategic plant proximity.

RELIABLE CONSISTENT SUPPLY

- Robust long-term material sources.
- Installed production capacity.
- Guaranteed Supply Security.
- Monitoring traceability.

INNOVATION HUB

- Agile go-to-market solutions.
- Industrial Scale Pilot Plant & Lab technology.
- Co-creation space to facilitate collaborative innovation.
- 50+ Expert technical advisors.
- Customization Capabilities.

SUSTAINABILITY

- 11 years pioneers in Carbon Footprint Calculation.
- 246,600* tonnes of CO_2 Emissions Saved to our customers thanks to our solutions.
- Driving the Circular Economy.

* Information based on 2023 annual calculation.

Quality Obsession

- Aligned with ISO9001 & ISO14001 standards.
- Quality consistency through rigorous performance monitoring.
- State-of-the-art technology.
- Fully certified product portfolio.

Certifications

Committed to the highest standards

ISO 9001
Quality Management system

ISO 14001
Environmental Management system

ISO 14067
Carbon Footprint

PAS 2050
Carbon Footprint

UNE – EN 15343
Recyled Content & Traceability

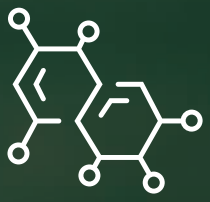
Recyclass
Recycling Process for pre-consumer & post-consumer

Biodegradability
Home & Industrial Compost, Soil Compost

OCS – Operation Clean Sweep
Zero Pellet Loss

GCR Minimizing the environmental impact

Prioritizing the purchase of raw materials in bulk to avoid overpackaging and reduce waste generation.



Ensuring balanced consumption of petrochemical compounds by using materials that reduce reliance on virgin polymers.

Striving for zero waste by recovering plastic materials already in circulation or from the packaging of received materials and converting them into raw materials for Ciclic products.

100% solar roof coverage at GCR's La Bisbal facilities, boosting clean energy from 520,000 kWh in 2022 to 1,579,000 kWh in 2024

Calculating the carbon footprint of our products in accordance with the PAS 2050 and ISO 14067 Carbon Footprint standard.

Making our packaging more sustainable by optimizing and redesigning it to offer a lower carbon footprint and increased usability.

Life Cycle Assessment

We know that every step matters

LCA is a systematic approach that evaluates the environmental impact of a product or service throughout its entire life cycle, from raw material extraction to disposal.

BENEFITS: calculating the LCA enables customers to make environmentally conscious choices, sustainable fuel demands, support responsible businesses and collectively contribute to a more sustainable future. businesses, and collectively contribute to a more sustainable future.

- Informed decision-making
- Comparative analysis
- Eco-friendly design
- Reduced environmental footprint

We conduct 'Cradle-to-Gate' Life-Cycle Assessments for our products in compliance with ISO 14040 series standards, and our Carbon Footprint is certified pursuant to the PAS 2050 and ISO 14067 guidelines.

Raw Materials


Minerals


Virgin or recycled Polymer


Waste

Prioritising suppliers through a km 0 policy

Transport


Measuring Impact:
from raw material source to our plants

Production


Low energy consumption technology.
Energy from renewable sources

GCR Material

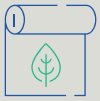
CICLIC GCR

GRANIC GCR

BIOGRANIC GCR

RGRANIC GCR

Packaging Application


Sustainable packaging
CO_2 savings
Up to 90%*

*Our products can potentially reduce CO_2 emissions by up to 90% in specific applications. However, actual reductions may vary based on the final application and the product used. We work with customers to identify suitable products for optimal CO_2 reduction. Composition example for Granic® 282 in Hygienic packaging : By adding

Innovation Hub

Accelerating Your Go-to-Market with Sustainable Innovation and Advanced Capabilities

Innovation Hub equipped with cutting-edge technology

GCR Innovation Hub provides a unique **2000 m2 co-creation space** in which to run collaborative projects and benefit from our technical expertise, capabilities, and cutting-edge technology.

With a team of **+50 experts**, we also create value during **in-house sessions** by working closely alongside our clients.

Expert Technical Advisors

Over 50 highly knowledgeable technical advisors are ready to provide you with expert guidance and support at any stage of your project.

Testing & Homologation

Sustainable Material Science in new formulations, pilot plant trials, Lab analysis, testing and up-scaling to production.

Dedicated R&D Centre

Developing solutions that minimise environmental impact.

Industrial Scale Pilot Plant

Incubation and proof of concept from development to pilot plant and final large-scale production.

Together, we can turn your product challenges into Success Stories

Innovation Hub

Supporting developments at any stage

End-to-end-solutions

PRE-CONCEPT	Gap review Scenario management Regulation trends Market trends
CONCEPT DESIGN	Eco-design Business Lab Project functional and technical design
MATERIAL ASSESSMENT	Life Cycle Assessment Management of product attributes or features
APPLICATION DEVELOPMENT	Lab Scale
TECHNOLOGY ASSESSMENT	Pilot Plant Sequencing of work centre operations
PROCCESSABILITY ASSESSMENT	Consistent Process Planning Pilot Plant Generationof graphics, quality logs and Statistical Process Control (SPC)
ECONOMIC REENGINERING	Material cost formulation analysis Faster processing time analysis Optimisation of technical operational processes
MANUFACTURING OPTIMISATION	Quality controls Traceability controls Timely proactive and corrective decisions through key performance indicators
LAB SCALE TRIALS	Proof of Concept to scale Prototyping
PILOT PLANT TRIALS	Proof of Concept Real Sample Prototyping Tests UAT User Acceptance Tests
MASS PRODUCTION	Roll out in client's work centre

Our Deliverables

- Co-creation space
- Discovery of new ideas
- Accelerate action to circularity
- Turnkey Projects
- Recyclability Consultancy Services

Note: Developments are subject to volume threshold and binding agreement

Sustainable Rigid Packaging

Understanding industry challenges

Sustainable
Material Solutions

Rigid Packaging

Understanding industry challenges

CUSTOMER NEEDS & TRENDS

Businesses are actively refining packaging designs to:

- Create memorable **experiences.**
- **Stand out** in the market.
- Address **environmental** concerns.
- Meet sustainability goals.

OUR EXPERTISE

At GCR, **we work to make sure you don't have to sacrifice PERFORMANCE for improved SUSTAINABILITY.**
At our Innovation Hub we create, test, and improve sustainable solutions.

STANDARD PACKAGING REQUIREMENTS

The following requirements are likely to resonate with you, and that's precisely where our expertise lies:

- Durability.
- Lightweight.
- Product Preservation.
- Secure Storage.
- Prolonged Shelf Life.
- Thin-walled.
- Aesthetic Appeal.
- Packaging Versatility.
- Sustainability.
- Eco-friendly solutions that use recyclable, biodegradable and/or natural origin materials.
- Reducing Carbon Footprint.

Sustainable Material Solutions

Rigid Packaging Challenges

Performance Challenges

- High quality packaging.
- Effective barrier properties.
- Low energy consumption.
- Smooth processability.
- Dimensional stability.

Recycling Challenges

- Consistent performance.
- Match the performance of prime POs.
- Seeking narrow specifications.
- SOIs under control.
- Material compatibilization .
- Reliable feedstock sources .

Sustainability Challenges

- Reuse: reused or repurposed .
- Recycle: monomaterials .
- Renewable Materials: recycled & biobased.
- EOL: designed for recyclability or biodegradation.

Sustainable Material Solutions

Rigid Packaging Solutions

Finding sustainable solutions that can meet the required properties and performance is key to reduce the environmental impact of flexible packaging.

PRODUCT PORTFOLIO

Recycled Polyolefins

CICLIC GCR

Ciclic® is a high-quality recycled and recyclable polyolefin product line.

Mineral Masterbatches

GRANIC GCR BIOGRANIC GCR

Granic® is our high-performance mineral-based concentrate product line.

SERVICE LEVELS

- Technical Service
- Material Traceability
- Certifications
- Cradle to Gate LCA Calculation (backed by UNESCO Chair in Life Cycle and Climate Change)

INNOVATION HUB

Unmatched expertise and resources, driving innovations to tackle market challenges effectively.

Customisation possibilities*.

Driving the Circular Economy

- Understanding PCR Upcycling
- Designing for recyclability
- Assessing Recyclability

Enhancing Performance and Sustainability

- Innovative Compatibiliser Technology
- Neatly Blending & Odourless Technology
- Lightweight Solutions
- Reducing Carbon Footprint and improving LCA

*Subject to MRQ and LT agreements

Sustainable Rigid Packaging Solutions

Injection Moulding

Caps & Closures

Ciclic® rPP

Ciclic® recycled polypropylene offers an eco-friendly solution derived from waste materials sourced from both pre-consumer and post-consumer. Specifically formulated for injection molding techniques, this grade is ideal for replacing virgin materials in caps & closures production.

KEY ADVANTAGES

- **High Percentages Addition:** Allows for significant incorporation rates in manufacturing processes.
- **Stable Material:** Ensures consistency and reliability in production.
- **Good Demolding Behavior:** Facilitates easy release from molds, enhancing efficiency.
- **Good Dispersion in Mold:** Uniform distribution within molds for consistent part quality.
- **No Bad Smell:** Provides a pleasant processing environment and end-product experience.
- **Works with IML (In-Mold Labeling) and Adhesion**

SUSTAINABILITY

Composition Example:
Reference: 100% PP
New formulation: 30% to 100% Ciclic rPP

27% to 90%
CO_2 reduction

- Lower Carbon Footprint.
- ISO 14067 Carbon Footprint certified.
- A complete LCA can be performed on Ciclic® products.

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Product Carbon Footprint
Regular Surveillance
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RecyClass RECYCLING PROCESS EN 15343

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ISO 14067

Injection Moulding

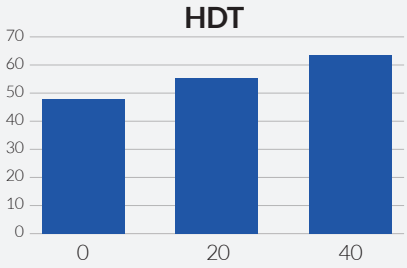
Hot food trays

Granic® PP / Talc

Granic® PP – Talc is a functional mineral masterbatch, food contact approved, meeting all prevailing EU and FDA regulations.

In the food packaging industry, Granic® PP – Talc **enhances the HDT of injected parts, reduces warpage, and optimizes the injection molding process** without compromising performance.

HIGH TEMPERATURE PERFORMANCE



20%Granic

17% increased HDT

40%Granic

31% increased HDT

KEY ADVANTAGES

- Enhances the HDT* of injected parts.
- Improves dimensional stability (reduces warpage by 25%).
- Reduces cycle time.
- Maintains mechanical properties.
- Improves demoulding.
- Reduces stress whitening.
- Maintains weight and size.

**HDT: Heat deflection temperature.*

SUSTAINABILITY

Composition Example:
Reference: 100% PP | Talc
New formulation: 60% PP + 40% Granic PP

28% CO_2 reduction

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- Lower Carbon Footprint.
- Energy Efficiency.
- Granic® is **Pas 2050** Carbon Footprint certified.
- A complete LCA can be performed on Granic®.

Thermoforming

Reusable Cups & Trays

Granic® PP | Ultra–fine – $CaCO_3$

Granic® PP | Ultrafine $CaCO_3$ is a high-performance mineral masterbatch engineered with an extra-white, ultrafine calcium carbonate to deliver an optimal balance of strength and functionality. It ensures high-performance and enhanced processing efficiency.

KEY PERFOMANCE BENEFTIS

- **Mechanical Properties:** Significantly increases impact strength, bending performance, and stiffness for durable, reusable packaging.
- **Dimensional Stability:** Enhances heat deflection temperature (HDT) and reduces shrinkage, ensuring superior product reliability and precision.

KEY ADVANTAGES

- **Enhanced Opacity:** Achieves a superior finish while reducing the need for color masterbatch
- **Improved Thickness Distribution:** Ensures uniformity and minimizes the risk of warpage, providing a consistent final product.
- **Thermal Efficiency:** Higher thermal conductivity enhances heat transfer during sheet pre-heating and part cooling, boosting productivity.

SUSTAINABILITY

Composition Example:
83% Virgin PP + 17% Granic® PP

14% CO_2 reduction

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- Lower Carbon Footprint.
- Energy Efficiency.
- Granic® is **Pas 2050** Carbon Footprint certified.
- A complete LCA can be performed on Granic®.

Injection Moulding

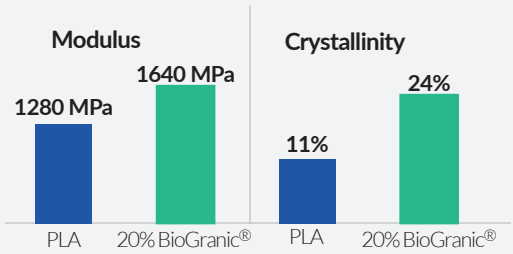
Compostable Coffee capsules

BIOGranic®

PERFORMANCE

Composition Example: PLA + 20% BioGranic

- Increases crystallinity by 15%.
- Improves Impact Resistance (Modulus) by 30%.



BioGranic® is a mineral masterbatch with a unique mineral blend and biodegradable thermoplastic resin for compostable bioplastics in rigid applications. This **unique combination enhances the value of compostable bioplastics by improving performance,** reducing formulation costs, and optimizing the production process.

KEY ADVANTAGES

- Enhances output and process stability, ensuring a more uniform thickness distribution through improved plasticization.
- Significantly improves impact resistance and heat deflection temperature in PLA.
- Offers a cost-effective solution, enhancing the processing and performance of common biodegradable thermoplastics.
- Reduces brittleness, facilitating easier handling.

SUSTAINABILITY

BioGranic® is certified according to:

- OK Compost INDUSTRIAL
- OK Compost HOME.

Lower Carbon Footprint solution.

HOME OK compost TÜV AUSTRIA HOME
OK compost TÜV AUSTRIA INDUSTRIAL

Injection Moulding

Household Goods

Granic® PP – Talc

Granic® PP – Talc is a reinforcing mineral masterbatch designed for the PP injection moulding market. It enhances the strength and stiffness of end products, offering an excellent alternative to talc compounds.

PERFORMANCE

- 40% Granic® + 60% Virgin PP can replace a PP Compound with 30% Talc.
- Granic® makes the piece stiffer and tougher than Talc compound.
- Granic® PP – Talc gives the finished part a more consistent look.

KEY ADVANTAGES

- Excellent Dimensional Stability.
- More Autonomy in the final formulation.
- Raw Material Savings.
- Delivers Improvement in Processing Process.
- Cycle time reduction (cooling time).

SUSTAINABILITY

Composition Example:
60% Virgin PP + 40% Granic® PP -Talc.

29% CO_2 reduction

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- Lower Carbon Footprint.
- Energy Efficiency.
- Granic® is **Pas 2050** Carbon Footprint certified.
- A complete LCA can be performed on Granic®.

Injection Moulding

Bins, drums & Baskets

Ciclic® rPP | Granic® LLDPE | Ultra-fine CaCO3

GRANIC® KEY ADVANTAGES

- **Matte** appearance.
- Reduced **cycle time and energy consumption.**
- Excellent **dimensional stability.**
- **Warpage** improvement.
- Prevents **demoulding** issues.

CICLIC® KEY ADVANTAGES

Standard polypropylenes **highly consistent** across batches ready for **long term supply commitments.**

- Up to **100% replacement rate.**
- Grades with **MFR** ranging from 5 to 20 g/10 min (230° / 2.16 Kg).
- Good dispersion inmold.
- White, black and grey grades for injection.

SUSTAINABILITY

28% CO_2 reduction

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At 40% virgin polymer replacement rate

SUSTAINABILITY

89% CO_2 reduction

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At 100% virgin polymer replacement rate

- A complete LCA can be performed on our products.
- ISO 14067 Carbon Footprint certified.

Granic® LLDPE | Ultra-fine CaCO3 is a mineral masterbatch tailored for injection molding applications. It significantly enhances mechanical properties, boosting the strength and stiffness of finished products.

Ciclic® rPP offers a sustainable alternative to virgin polymers, maintaining high-quality standards while reducing environmental impact.

Together, they provide a sustainable and robust and durable solution ideal for rigid packaging applications.

Custom-made compounds available upon request.

Blow Moulding

Bottles

Granic® HDPE | Ultra-fine white CaCO3

Granic® HDPE | Ultra-fine CaCO3 is a specialty mineral masterbatch designed for extrusion blow molding.

It enhances performance without compromising material integrity. It supports downgauging, providing production advantages while contributing to carbon footprint reduction.

PERFORMANCE

- **Cycle Time Reduction:** Up to 8%, boosting throughput.
- **White Masterbatch Savings:** Reduces the need for additional whitening agents, lowering costs

KEY ADVANTAGES

- Superior opacity and whiteness for improved aesthetics.
- Supports thinner walls while maintaining strength, reducing HDPE usage.
- Boosts productivity with up to 8% faster cycle times.
- Enhances dimensional stability and reduces stress whitening.
- Preserves mechanical properties even in thinner designs.

SUSTAINABILITY

Composition Example:
91% HDPE | 8% Granic® | 1% White MB

6% CO_2 reduction

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- Lower Carbon Footprint
- Energy Efficiency
- Granic® is **Pas 2050** Carbon Footprint certified
- A complete LCA can be performed on Granic®

Blow Moulding

Bottles

Ciclic® rHDPE

Granic® rHDPE is a high-performance recycled polymer designed for extrusion blow molding applications, offering sustainability without compromising quality or efficiency.
Ideal for producing homecare and industrial bottles, it supports the goals of the European Green Deal while delivering reliable performance.

KEY ADVANTAGES

- **PCR Grades:** Incorporates high-quality post-consumer recycled (PCR) materials for sustainable solutions.
- **Smooth Production:** Optimized for consistent processing and operational efficiency.
- **Consistent Quality:** Ensures homogeneity and reliability across production batches.
- **Maintained Mechanical Properties:** Provides strength and durability comparable to virgin HDPE. Perfect for homecare and industrial bottle production. Allows for significant substitution of virgin HDPE without quality loss.

SUSTAINABILITY

Composition Example:
From 50% to 100% Ciclic rHDPE

45% to 90% CO2 reduction

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ISO 14067

- Lower Carbon Footprint.
- **ISO 14067** Carbon Footprint certified.
- A complete LCA can be performed on our products.
- **Meets European Green Deal Targets:** Designed to exceed the 30% recycled content requirement in packaging by 2030.

Injection Moulding

Transport Packaging

Granic® PP | Talc

Granic® PP - talc is a mineral masterbatch designed for the transport packaging applications. It significantly enhances the strength and stiffness of end products, surpassing conventional additives for superior durability.

PERFORMANCE

- Compression strength: 3 stacked boxes = 2.6t
- Withstands 4 meters height at -30°C
- Maintains weight with excellent durability

KEY ADVANTAGES

- Excellent dimensional stability and warpage control
- Faster cycle times (3 seconds reduction)
- Improved demolding and reduced stress whitening
- Stronger with less material for weight-balanced designs

SUSTAINABILITY

Composition Example:
89% Virgin PP + 11% Granic® PP –|Talc

8% CO_2 reduction

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- Lower Carbon Footprint.
- Energy Efficiency.
- Granic® is **Pas 2050** Carbon Footprint certified.
- A complete LCA can be performed on Granic®.

Hollow Sheet

Foldable Boxes & Containers

Ciclic® rPP | Granic® PP

KEY ADVANTAGES

- Ideal for thin-wall structures with improved strength at lower GSM
- Smooth surface for excellent printing results
- Consistent quality for reliable production
- Increased productivity with higher output

SUSTAINABILITY

Composition Example:
Reference: 100% PP
New formulation: 30% Ciclic® rPP +25% Granic® PP +45% PP Copolymer

44% CO_2 reduction

- Lower Carbon Footprint.
- Energy Efficiency.
- Ciclic® is **ISO 14067** Carbon Footprint certified.
- Granic® is **PAS 2050** Carbon Footprint certified.
- A complete LCA can be performed.

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ISO 14067

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Powerful synergy for corrugated and compact board applications with **Granic®** and **Ciclic®**.

Granic® reinforces hollow sheet structures, providing exceptional stiffness and toughness, while **Ciclic®** offers sustainable, high-quality rPP known for its strength and reduced carbon footprint.

Injection Moulding

Luxury Packaging Closures ABS replacement

Ciclic® & Granic®

Sustainable Alternatives to ABS: Ready to Transition?

As environmental concerns rise, ABS plastic is under scrutiny for its limited recyclability and carbon footprint.

GCR provides sustainable alternatives: custom PP-based compounds that deliver premium aesthetics while reducing carbon footprints and enhancing recyclability

KEY ADVANTAGES

Tailor-made RTU compounds for your needs

- Up to 50% polymer replacement with consistent quality
- Premium aesthetics after metallization with a heavy, thick feel for caps
- Maintains shrinkage for dimensional stability
- Options for virgin and/or recycled polymer bases

SUSTAINABILITY

- Lower Carbon Footprint, , with certified reductions
- All GCR products are Carbon Footprint certified.
- Life Cycle Assessment (LCA) available to quantify environmental impact.

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Sustainable
Material Solutions

High-quality sustainable plastics for rigid packaging

Comprehensive packaging solutions.

PERFORMANCE & SUSTAINABILITY

Our innovative materials combine the best of both worlds: an exceptional performance and a commitment to sustainability.
We work to ensure you don't have to sacrifice PERFORMANCE for improved SUSTAINABILITY.

CHALLENGES

We understand and solve flexible packaging challenges such as superior durability, **barrier properties,** hermetic sealing, good **printability** or **smooth processability**, offering design flexibility to enhance recyclability and reduce CO_2.

INNOVATION HUB

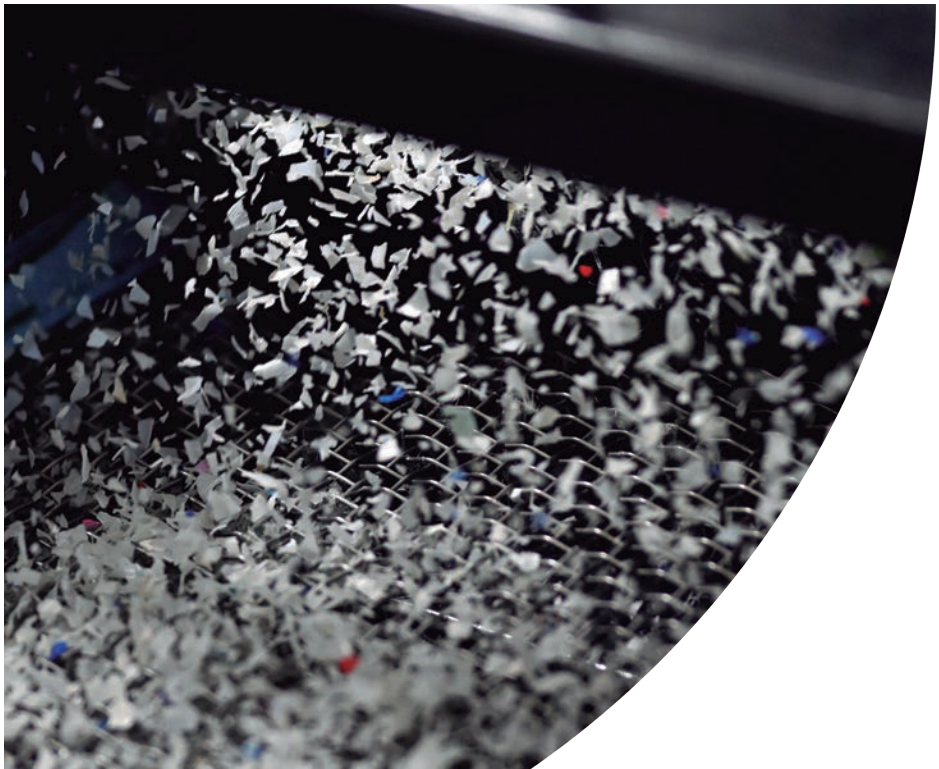
We can support **customised solutions at any stage of the development** process through our innovation hub capabilities. Testing and homologation services can be offered in-house or on the customer's premises.

TRACEABILITY

Our plastics are sourced responsibly, incorporating recycled content and renewable resources that are traceable throughout our manufacturing process. This not only reduces our carbon footprint but also promotes a circular economy.

COMPREHENSIVE SOLUTION

Join us in revolutionising packaging – where excellence meets sustainability.



GCR Headquarters

Sustainable Plastic Solutions

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43717, La Bisbal del Penedès –Tarragona, Spain

Castellet i la Gornal
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The images of applications shown are for illustrative purposes only and may not precisely represent actual final applications or performance.

Granic® has the potential to reduce CO2 emissions by up to 50% at dosages around 70%. However, actual CO2 reductions may vary depending on the specific application, processing conditions, and product formulation used.

CICLIC® has the potential to reduce CO2 emissions by up to 90% in your product formulations. Actual emission reductions may vary based on the final application, product formulation, and specific usage conditions.

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GCR

Innovating
our sustainable
tomorrow

GCR Headquarters

Sustainable Plastic Solutions

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