CICLICNXT
GCR

Next–Level Solutions in PCR Polyolefins

High–quality PCR at scale

CO_2

SAVINGS UP TO 90%

CICLICNXT

GCR

Next–Level of PCR Polyolefins at Scale

CICLIC**NXT**® represents the next step in recycled polyolefins — a certified line of 100% post-consumer PCR materials, engineered to meet the demands of continuous, **industrial-scale production.**

Developed for brand owners and leading plastic converters with **large-volume needs and narrow technical specifications**, CICLIC**NXT**® offers PCR polyolefins with performance **comparable to virgin materials**, ready to re-enter the value chain without compromising **performance, scale, or brand reputation**. Backed by over 20 years of recycling expertise and produced at one of Europe's most advanced recycling facilities.

Whether you're scaling recycled content, meeting regulatory demands, or securing long-term supply, CICLIC**NXT**® delivers the **performance, consistency, and traceability** your operations need to move forward.

Why CICLICNXT®?

100,000 mT/y
of certified post-consumer recycled polyolefins

Performance comparable to virgin materials
with full traceability and consistent quality

Certified carbon footprint (ISO 14067)
Up to 90% CO2 savings

Reliable sourcing and continuous supply
to support large-scale production

Strategic partner for EU regulatory goals
and circularity commitments

Innovation Hub

Every CICLIC**NXT**® grade is supported by the technical expertise and technology infrastructure of our Innovation Hub — a key pillar in ensuring consistent performance, application fit, and long-term reliability.

Our team of 50+ specialists works across:

- **Industrial-scale pilot lines**
- **Advanced lab and QA testing**
- **Material innovation**
- **Real-world validation for demanding applications**

High-Performance Mechanical Recycling at our State-of-the-art recycling plant

GCR's recycling plant sets a new industry standards for high-performance mechanical recycling. Purpose-built to process post-consumer waste at industrial scale, it combines **state-of-the-art technology, high material recovery rates, and low environmental impact to deliver certified, high-quality PCR polyolefins.**

One of Europe's largest polyolefin recyclers

20+ years of recycling expertise with compounding capabilities

Expanded production capacity and efficiency

ensuring a reliable and scalable supply. 100,000 mT/y of post-consumer recycled polyolefins:

- 20,000 mT/y Flexible
- 80,000 mT/y Rigid

Low-energy, high-yield processing

designed to minimize environmental impact. Closed-loop water purification system, reducing consumption and placing us among the top 10% in water efficiency.

Stringent quality control

to ensure consistency in every batch. Our in-house lab rigorously tests every batch with analytical methods and real-world simulations to guarantee top performance and quality.

From Performance to Application

CICLIC**NXT**® CICLICNXT® is available in a growing range of grades tailored to the needs of brand owners and leading plastic converters operating in demanding markets. With a strong technical foundation and full certification, our solutions support a wide array of applications from rigid and flexible packaging to non-food contact personal care, household, and beyond, **including HDPE blow moulding grades supported by an FDA No Objection Letter (NOL) for use in food contact applications.**

CICLIC**NXT**® end–Markets

- Personal care
- Household
- Rigid packaging
- Building
- Flexible packaging

Certifications

Commitment to the highest standards

TÜVRheinland CERTIFIED — Management System ISO 9001:2015 ISO 14001:2015 — www.certipedia.com 9105057179

TÜVRheinland CERTIFIED — Product Carbon Footprint Regular Surveillance — www.certipedia.com 9105057179

ISCC International Sustainability & Carbon Certification

RecyClass RECYCLING PROCESS EN 15343

CS Europe CERTIFICADO POR AENOR

CICLIC**NXT**® transforms discarded plastic into opportunity for brands and plastic processors that lead with purpose.

High–Performance Mechanical Recycling Process

Consumption

Products

Recycled Material PCR & PIR

Manufacturing

CICLICNXT Recycled Polyolefins

1. Collection and Sorting:

The process starts with the careful sourcing and sorting of pre- and post-consumer polyolefins by material type, color, and quality. Full traceability is maintained as materials are prepared for processing.

Laboratory testing

Deodorization Treatment Batch Homogenization

6. Deodorization Treatment & Batch Homogenization

Post-consumer materials undergo specialized deodorization treatments to remove unwanted odors, meeting brand owner expectations for aesthetics.

Batch homogenization guarantees color consistency and uniform properties across every production run.

7. Quality Control & Testing

Our in-house lab conducts rigorous testing–both analytical and application-based–to ensure each batch meets the highest standards of quality and performance.

8. Delivery – Custom Solutions for Brand Owners and Value Chain

We deliver reliable recycled polyolefins through controlled sourcing, high-performance formulations, and consistent quality–tailored to the needs of brand owners and the value chain worldwide.

High-quality Pre-sorted Material

Material shredded into small flakes

Cold and hot water washing

3. High Efficiency Washing

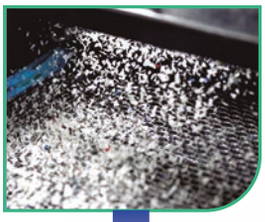
The material undergoes a thorough hot water and caustic soda wash to remove contaminants. Controlled dosages guarantee material quality at this stage.

Our hot washing capacity exceeds 75,000 metric tons annually, making us one of the largest in Europe.

2. Particle Size Reduction

High-capacity shredders reduce the material to a consistent particle size, maximizing productivity and ensuring uniform feedstock for the next stages.

Drying process



Sorting by color & material composition

4. Sorting by color & material composition (Tomra Technology)

Advanced optical sorters separate flakes by polymer type and color. This ensures high-purity streams, optimizing recyclability and performance for demanding applications.

Fed into processing line

Pelletizing

5. Extrusion (Erema Technology):

Sorted flakes are processed through our EREMA extrusion lines, where they are melted, filtered, and compounded. Our technical expertise ensures formulations are tailored to meet material performance and processability needs.

Contact
Let's get in touch

GCR Headquarters
Sustainable Plastic Solutions

Carrer Boters s/n – Pol. Ind. Les Planes
43717, La Bisbal del Penedès (Tarragona) - Spain
T. (+34) 977 166 950
info@gcrgroup.es
www.gcrplasticsolutions.com

Production Plants

La Bisbal del Penedès
Carrer Boters s/n – Pol. Ind. Les Planes
43717, La Bisbal del Penedès (Tarragona) - Spain

Castellet i la Gornal
Carretera de Castellet a Sant Marçal, km 13
08732, Sant Marçal (Barcelona) - Spain

Europe
Deutschland
Benelux
France
Iberia
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Nordics
Poland
Turkey
UK & Ireland

Latam & North America
Latam
North America

Asia & Africa
Asia
Africa

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CICLIC**NXT**® has the potential to reduce CO^2 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. All statements, information, and data presented here in by GCR PLASTIC SOLUTIONS GROUP S.L.U. (GCR Group hereinafter) are believed to be accurate but are for guidance only and are not to be taken as a guarantee or other representation for which GCR Group and its affiliates and subsidiaries assume legal responsibility. GCR Group expressly disclaims any and all warranties, either express or implied, including, without limitation, any warranties of merchantability or fitness for a particular purpose, arising out of any use of the products or services. Identified herein or reliance on any information provided herein. All statements, information, recommendations and products must be thoroughly evaluated and verified by the end user to determine their applicability or suitability for each particular use, assuming all responsibility. Typical values are indicative only and are not to be construed as being binding specifications.

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Innovating
our sustainable
tomorrow

GCR Sustainable Plastic Solutions

www.gcrplasticsolutions.com

info@gcrgroup.es

(+34) 977 166 950