





## Why CICLICNXT®?

## **Innovation Hub**



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

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 and customer co-creation
- 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 highperformance mechanical recycling. Purpose-built to process postconsumer 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

## Low-energy, highyield processing

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

## 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

## 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.







# Performance to Application

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.

## CICLICNXT® end-Markets





Rigid packaging

局 Building

Flexible packaging

## Certifications

Commitment to the highest standards















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

## High-Performance Mechanical Recycling **Process**

#### Consumption

**Manufacturing** 

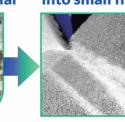


**Products** 

### **Recycled Material PCR & PIR**



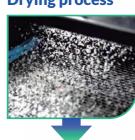
#### **High-quality Material shredded** into small flakes **Pre-sorted Material**



### **Cold and hot** water washing



## **Drying process**



#### 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.





### 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.

## 2. Particle

High-capacity shredders

## Size Reduction

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

## **CICLIC Recycled Polyolefins**



## 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.



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.



Laboratory testing



**Deodorization Treatment Batch** Homogenization



**Pelletizing** 



**Fed into** processing line

## & Testing Our in-house lab conducts

rigorous testing-both analytical and applicationbased-to ensure each batch meets the highest standards of quality and performance.

7. Quality Control

#### 6. Deodorization Treatment & **Batch Homogenization**

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

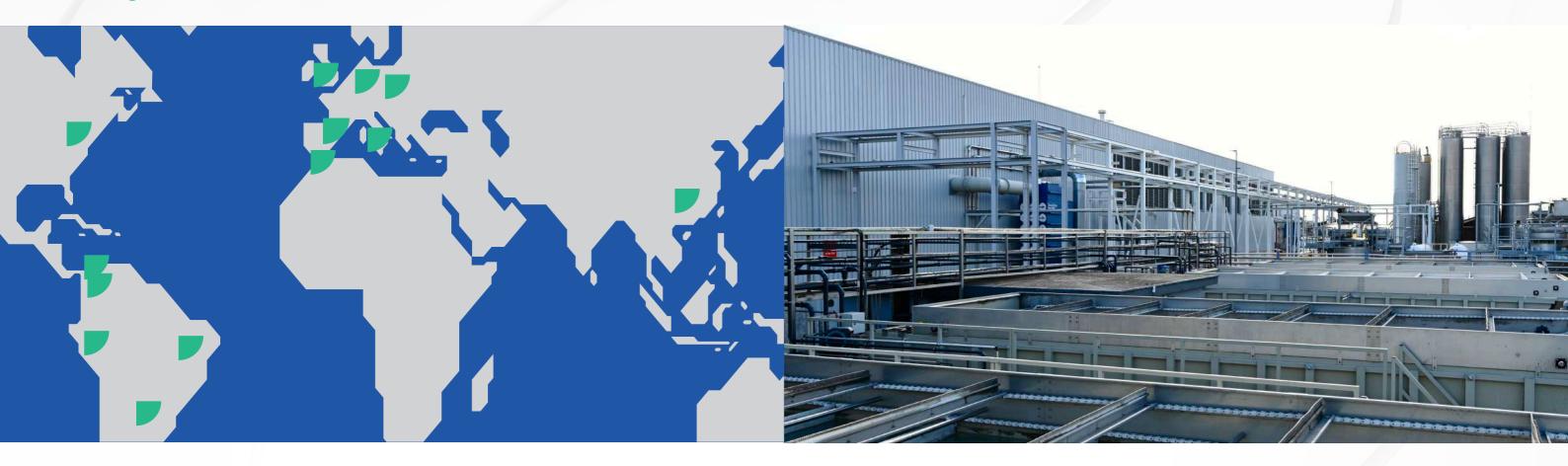
Batch homogenization guarantees color consistency and uniform properties across every production run.

#### 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 touch



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### **Production Plants**

#### La Bisbal del Penedès

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#### Castellet i la Gornal

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**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. 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

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