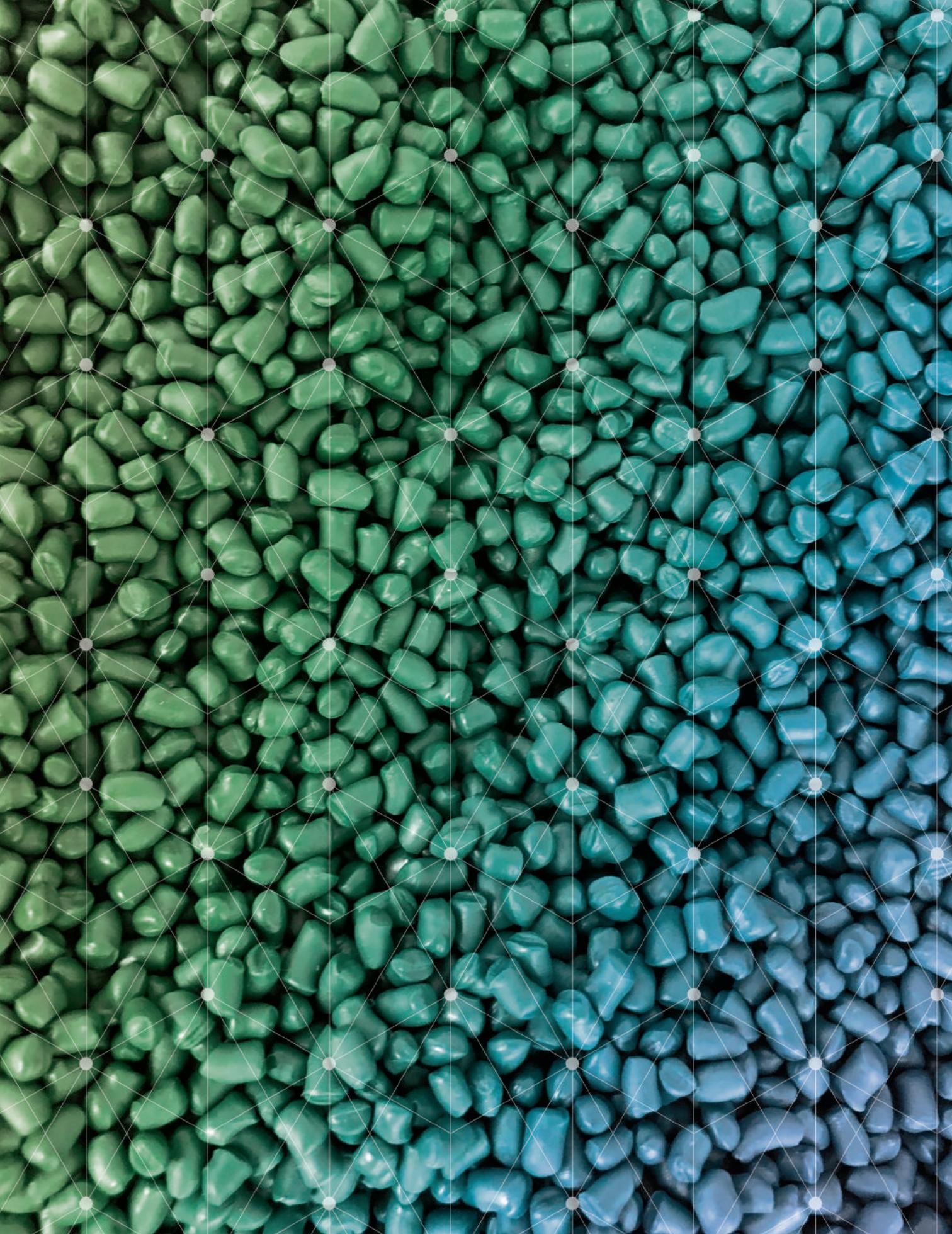




MyReplast Industries

Circular Upcycled Polymers





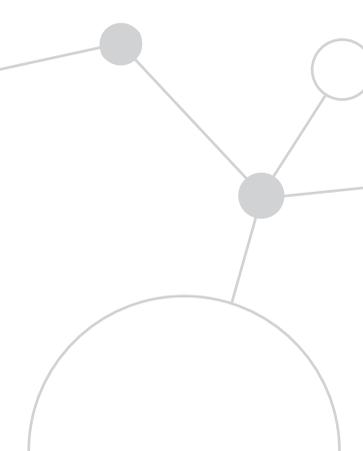
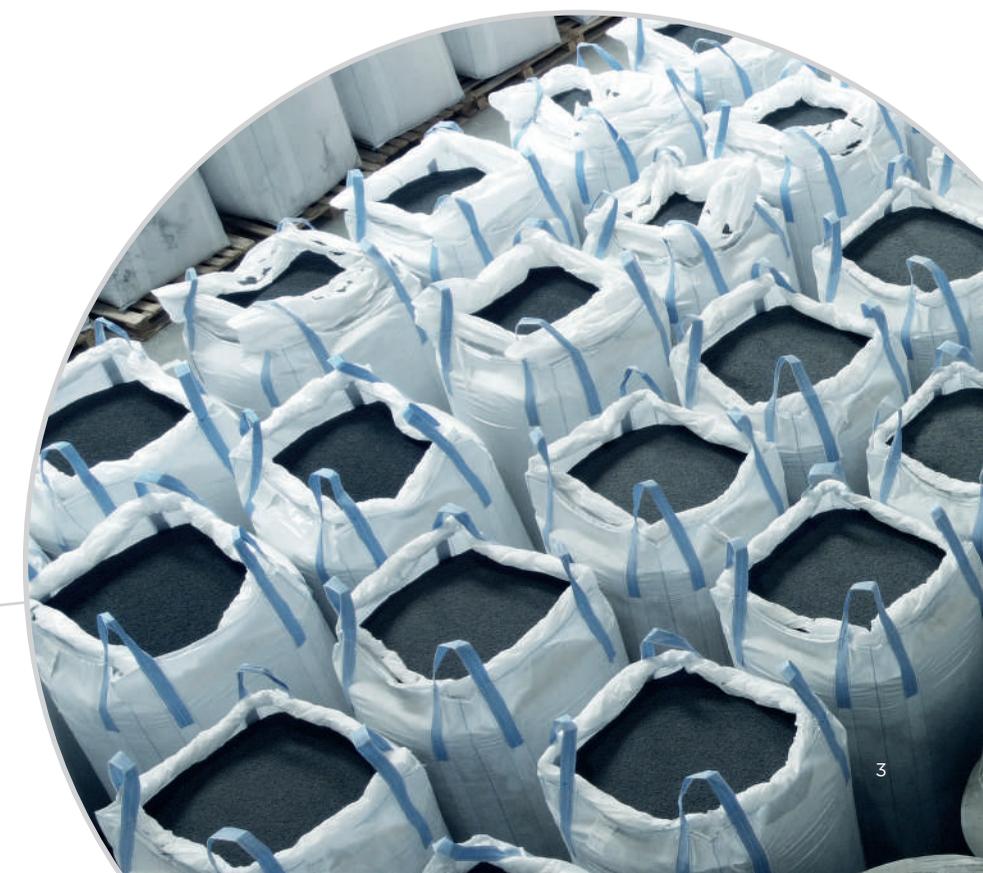
COMPANY Intro



MyReplast Industries is a **NextChem** company, part of **Maire Tecnimont Group**, operating in the Upcycling of plastic waste.

The company utilizes a group-owned technology capable of separating and combining the different polymers present within the waste. Through an optical selection phase (by polymer and by color) followed by a compounding step, high-quality granulate is obtained, that can replace virgin plastic in various application areas.

MyReplast Industries treats selected types of post-consumer rigid plastic waste, to make a final recycled product capable of bridging the quality gap between recycled and virgin plastics. The entire production process is managed in a plant with 40kt/y of installed capacity, currently classified among the most advanced in Europe, located in Brescia, in the north of Italy.

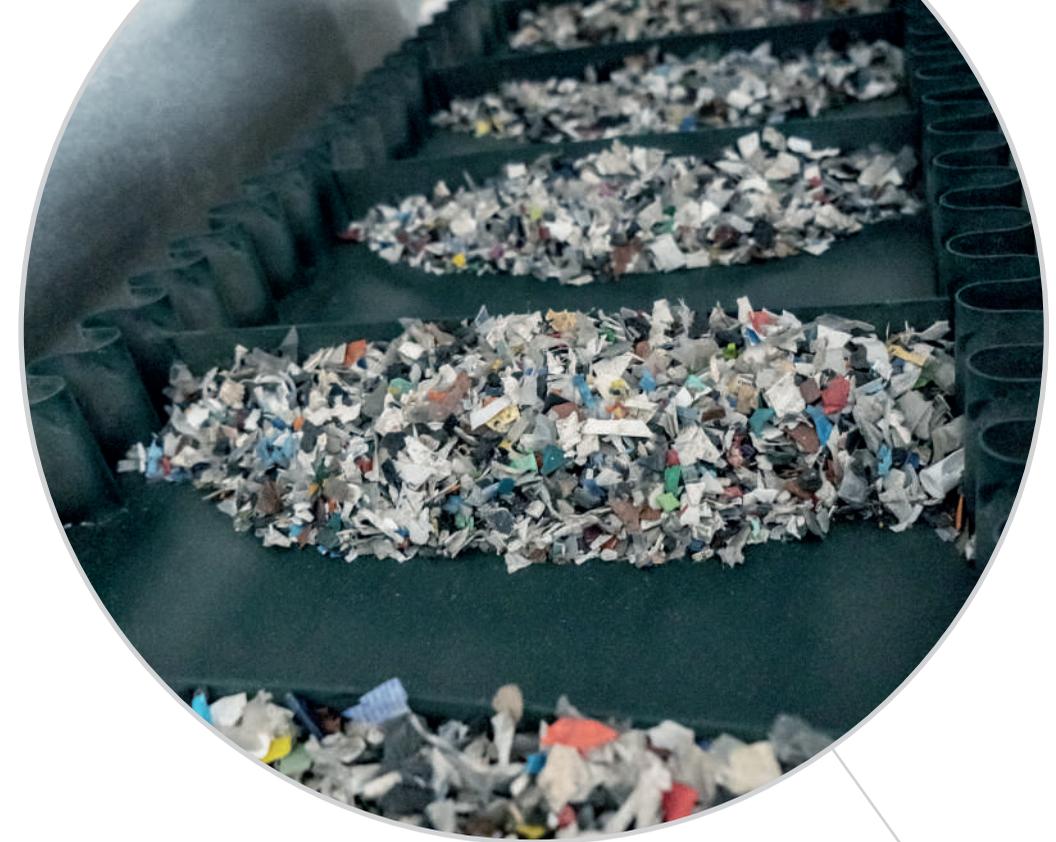


THE CONCEPT OF Upcycling

The **MyReplast™ Upcycling technology** combines mechanical recycling and chemical modification allowing to produce plastic products of high purity and quality by means of a proprietary recycling process. The performance of the resulting plastics is optimized through an integrated formulating and compounding stage, according to specific customer requirements.

The manufacturing process consists of **three** suitably combined **technological modules**:

-  Manual pre-sorting and size reduction (grinding) of a heterogeneous mixture of polymers;
-  Advanced optical selection and gravimetric separation in wash basins, followed by a color separation if required;
-  Upcycling: improving the physical-mechanical properties through chemical formulation in an extrusion step, which facilitates the customization of products for end-users.



MyReplast Industries is based on an economically sustainable business model, without relying on public incentives. For the production of high quality and environmentally friendly recycled polymers MyReplast Industries uses the proprietary **MyReplast™ technology** commercialized by **NextChem**.



MYREPLAST™ Technology

Unlike the classical recycled materials, **MyReplast Industries** products have chemical-physical characteristics and mechanical properties similar to those of virgin polymers of fossil origin. The purity and quality of our products are **constantly tested** and **monitored** through an advanced internal laboratory.

The **MyReplast™ technology** has the following fundamental characteristics:

-  **high flexibility** that allows the treatment of various types of plastic waste, both from post-consumer industrial sources (such as drums, pallets, and car components), as well as from urban post-consumer sources;
-  due to its **high efficiency**, the technology allows up to 95% of the incoming plastic materials to be recovered;
-  guarantees a **high quality** of finished products by combining mechanical recycling and chemical treatment, allowing the production of high purity and quality plastic.

The performance of **MyReplast™ products** is 'tailored', as it is possible, through a formulation and compounding phase, to obtain specific results based on customer needs.



MYREPLAST™ Products



MyReplast™ recycled polymer products are high performance post-consumer recycled materials of consistent quality, designed to meet customer requirements. We offer **tailored products** in accurately sorted and selected flakes as well as in regenerated or fully compounded granulate, designed to consistently perform according to specific technical customer requirements while respecting agreed quality specifications.

All **MyReplast™ products** are certified post-consumer products. **MyReplast Industries** flakes can be ordered in separate colors and color groups or as multicolor mix ("Jazz"), to be directly used for the manufacturing, or to be added in proportion as post-consumer content in the conversion and compounding industries.

MyReplast™ granulate is available in standard black and in different shades of grey as basis for further coloring with master batches. Each regenerated and compounded **MyReplast™** granulate is formulated to fulfill specific customer requirements and quality standards.



EuCertPlast



MYREPLAST™ Polypropylene



For technical info

Polypropylene is a versatile and easy-processing plastic material that is typically used in injection molding and extrusion processes.

MyReplast™ PP granulate (GPP) can be used in many applications spanning various markets, among which packaging, household items, construction, electrical appliances and automotive components.

Download TDS
myreplastindustries.it/en/granulate



Product family	Applications	Colors	Characteristics	*MFR
GPP HF		Black, Grey, Light Grey	High flow	21-28
GPP MF		Black, Grey, Light Grey	Standard and high impact	11-20
GPP LF		Black, Grey, Light Grey	Standard and high impact	5-10
GPO LF/MF		Standard Black	General purpose injection molding	4-8



* MFR: 230°C/2.16Kg, -MFR: 190°C/5.0Kg (Unit: g/10min)

MYREPLAST™ Polyethylene



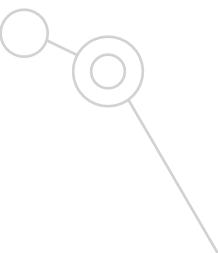
For technical info

Polyethylene is widely used in e.g. the packaging, transportation and construction industries because of its high toughness and resistance to wear. Grades of both HDPE (*High Density Polyethylene*) and LDPE (*Low Density Polyethylene*) are available for use in extrusion, blow-molding and injection molding processes.

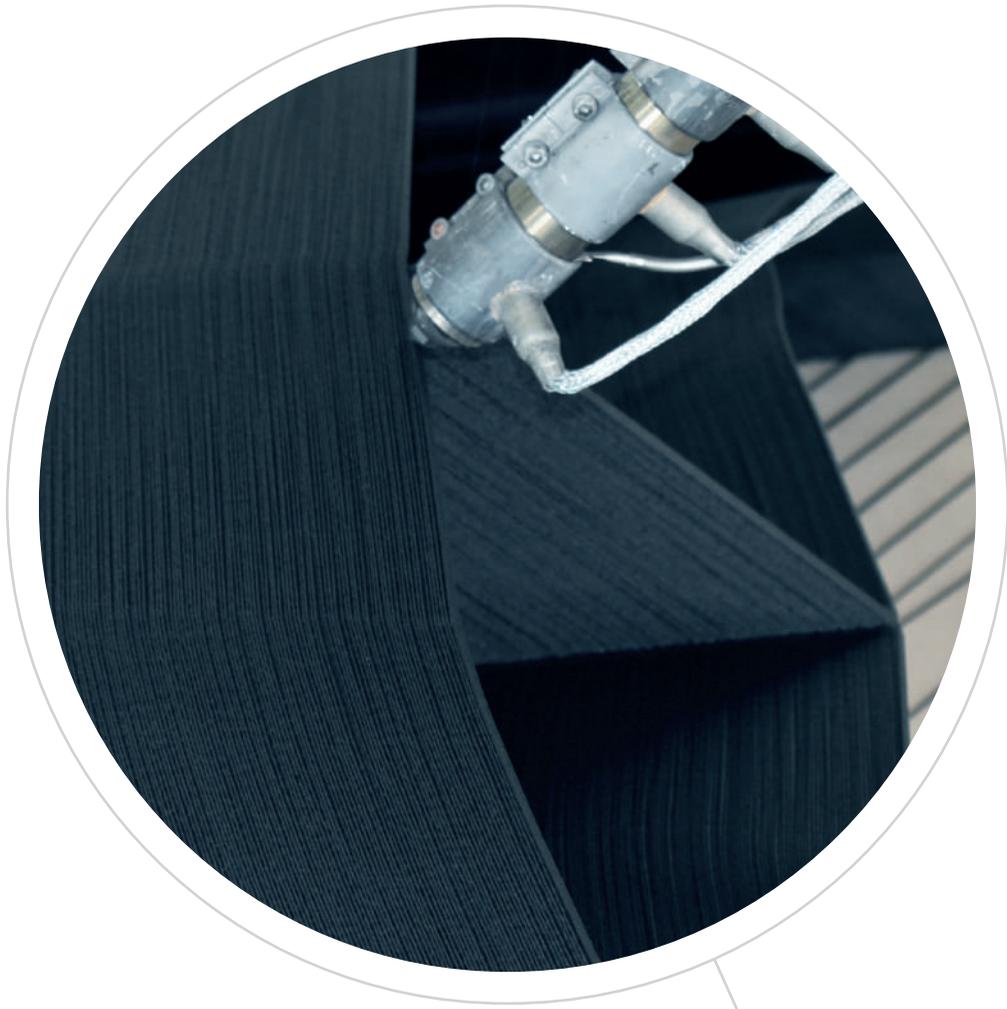
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Product family	Applications	Colors	Characteristics	*MFR
GLD LF/MF IM		Standard Black	General purpose granulate	1-5
FHD MF IM		Red, Green, Blue, Jazz	Medium flow	4-8
FHD LF BM		Red, Green, Blue, Jazz	Extrusion grade	1-2
FHD VLF BM		Blue-White, Jazz	High viscosity specialty grade	0,2-0,5



* MFR: 230°C/2.16Kg, -MFR: 190°C/5.0Kg (Unit: g/10min)



The **first monoblock hull 3D printed** in recycled plastics was realized by Caracol with **MyReplast™** PP produced at the **MyReplast Industries** plant in Bedizzole.



100 K MC
Landfill saved per year



MLN PEOPLE
Plastic consumption per year



270 K
Oil barrels saved per year



56 KTON/Y
CO₂ AVOIDED
EQ. per kg of plastics



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