



Company Profile 

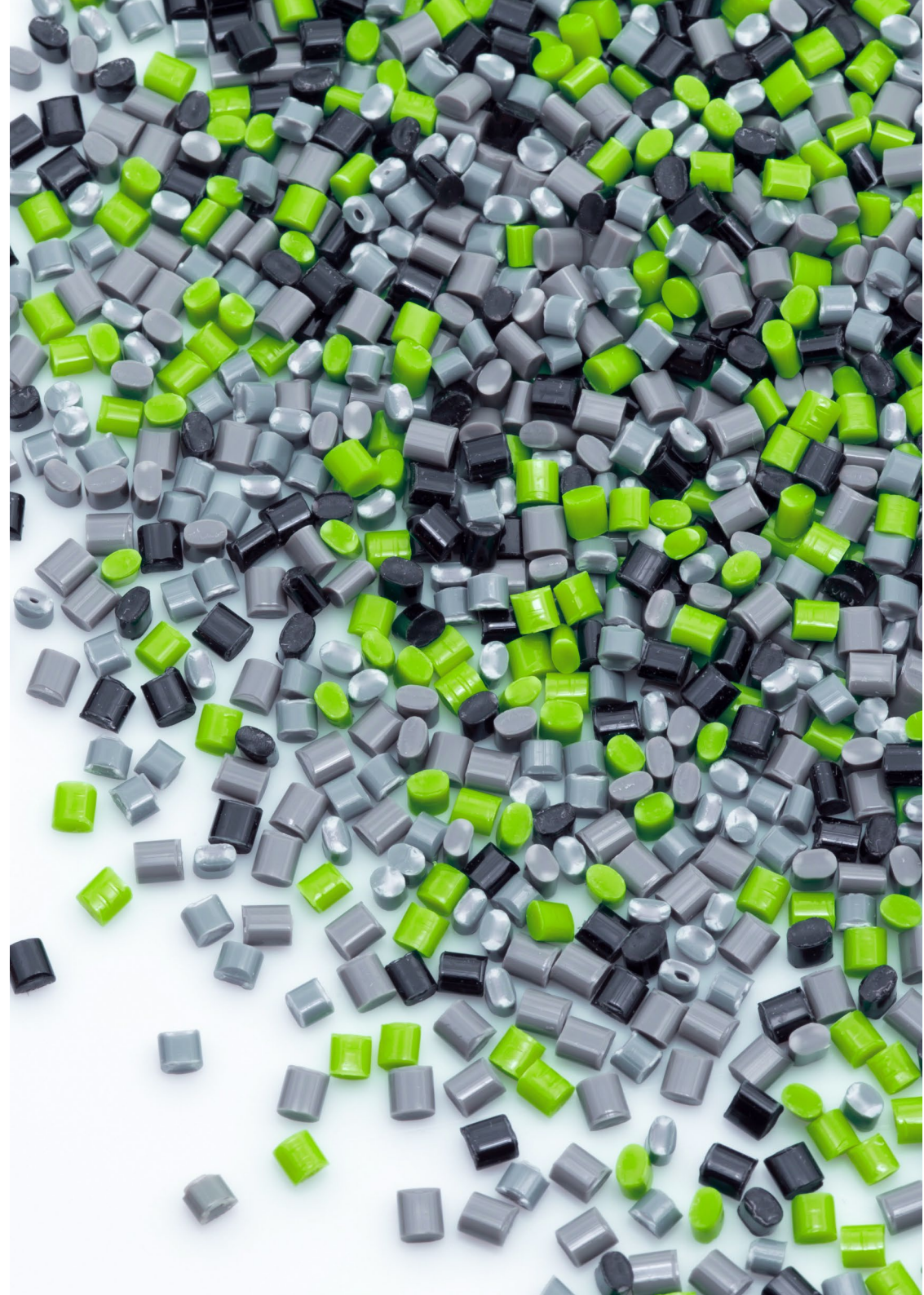


Cambiare la foto



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**GREEN AND INNOVATIVE  
SOLUTIONS FOR  
ENVIRONMENTAL FRIENDLY  
FLAME RETARDANTS  
AND ADDITIVES  
FOR PLASTIC INDUSTRY**





*Innovation*

**GROWTH**



**MOULD RELEASES** 

**HALS**

**PROCESSING**

**PLASTIC**

**UV ABSORBERS**

**AIDS**

**ADDITIVES**

*Teamwork* 

**HALOGEN FREE**



**CUSTOMER CARE**

**SUSTAINABILITY**

**ANTIOXIDANTS**

*Chain Extenders*

**I.V. ENHANCERS**

*Nucleants* 

 **PFAS FREE**

 **FLAME**   
**RETARDANTS**



WE DEVELOP  
**PLASTIC  
ADDITIVES  
FORMULATION**  
WITH LOWER  
HUMAN AND  
ENVIROMENTAL  
IMPACT

**TEAM EFFORT**

WE DEVELOP  
TECHNOLOGY FOR  
THE **RECYCLING OF  
DIFFICULT OR  
CONCERNING  
MATERIALS**

**SUSTAINABILITY**

WE DEVELOP  
NEW  
**RECYCLING  
TECHNOLOGY**  
FOR LOWERING  
PROCESS  
ENERGY

**INNOVATION**

WE DISTRIBUTE THE  
BEST PLASTIC  
ADDITIVES AND WE  
GUARANTEE:  
**QUALITY,  
TECHNICAL  
SERVICE,  
STOCK IN EUROPE**

**LONG TERM  
RELATIONSHIP**



# Who we are

Greenchemicals is an Italian company, developing flame retardants and additives formulations, trying to **reduce their environmental impact**.

Greenchemicals has been **founded in 2010** by people with a strong passion for plastic and many years of experience in plastic additives.

The work is driven by **creativity, passion, and a strong sense of responsibility** for human beings and the environment.



Greenchemicals strongly believes in companies' partnerships to achieve a common goal.



Thanks to its strong customer orientation, commitment to research, and attention to the environment, Greenchemicals presents itself as a reliable and attentive partner in the plastic additives sector.

## GREENCHEMICALS DEVELOPED IN THE YEAR MANY PARTNERSHIPS:

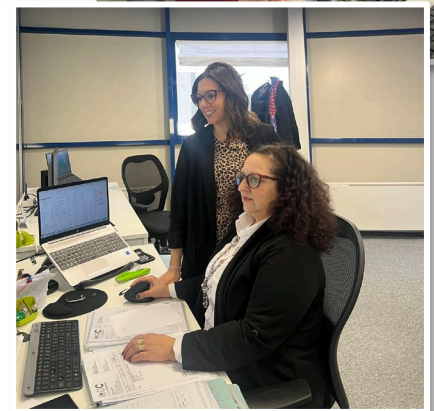
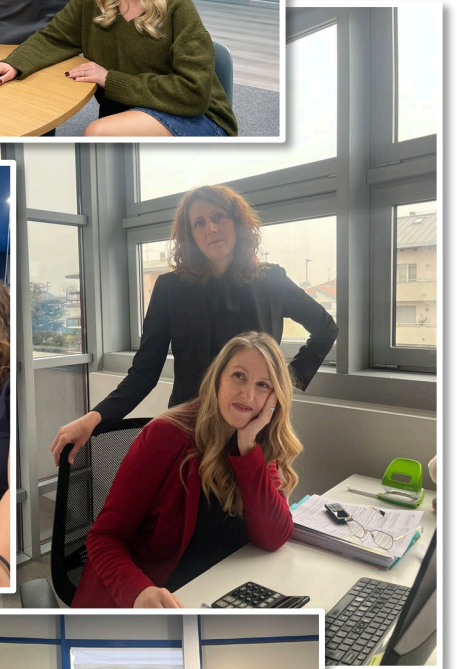
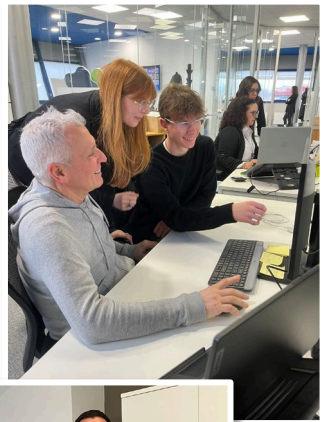
- Seta Polymers
- Danxia
- Operate
- Baoding Lucky Chemicals
- Sap
- Krauss Maffei
- Politecnico of Milan and Turin
- Frx-Nofia
- Polichem
- Gamma Meccanica



The professionalism of Greenchemicals in the field of plastic additives lies in the quality of its products and in its customized solutions.



Here we are!





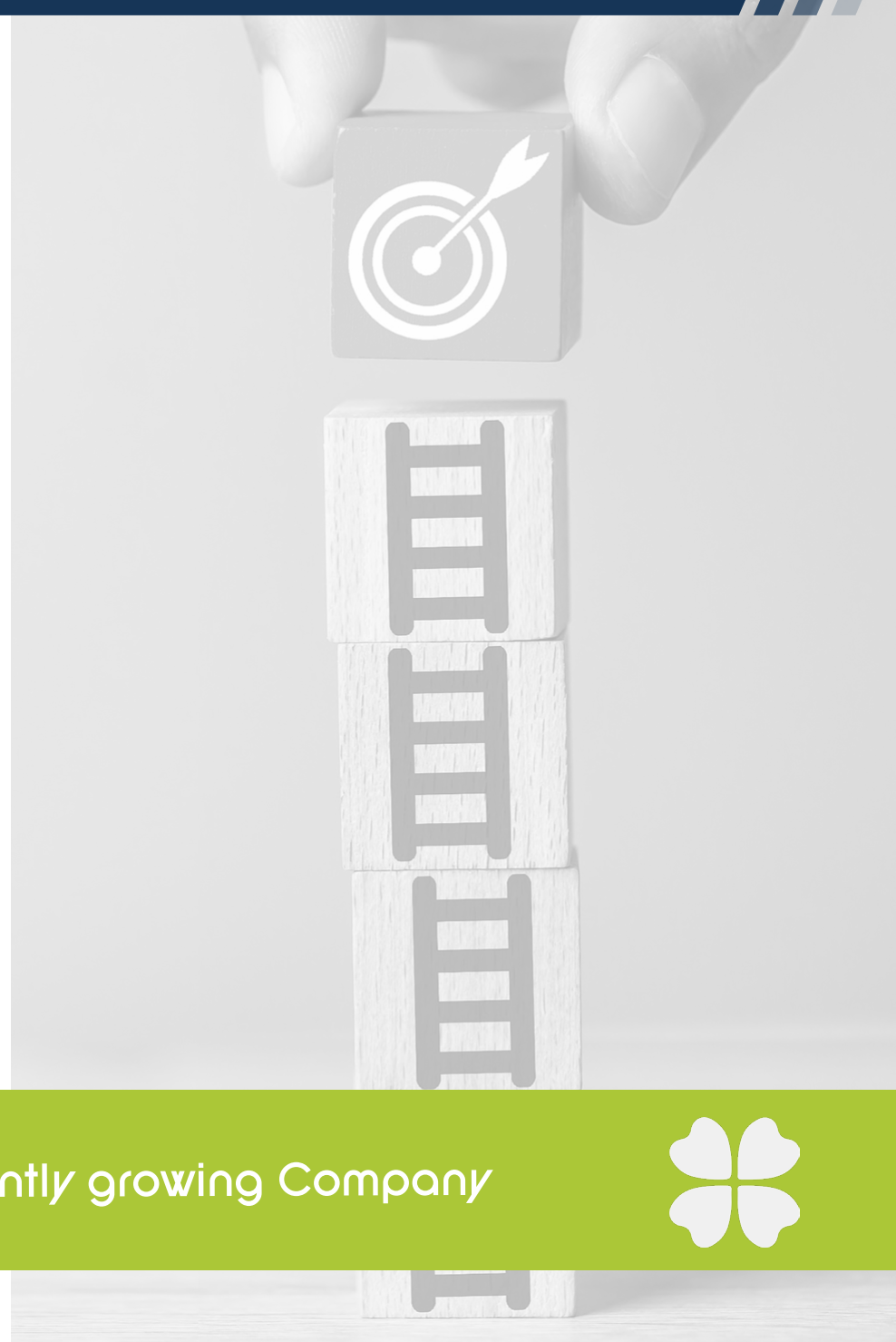
*keeping moving forward...*



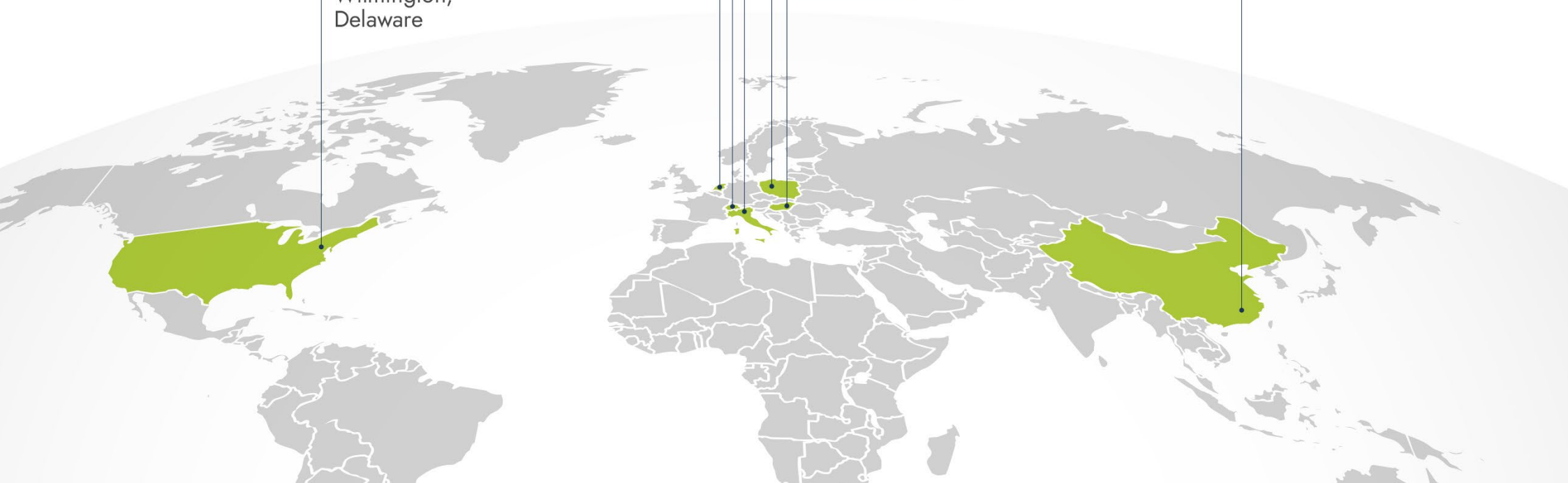
## SALES



A flexible, dynamic and constantly growing Company



# Our 7 Offices



**SWITZERLAND**  
Lugano

**ITALY**  
Desio (MB)  
Garlasco (PV)

**HOLLAND**  
Amsterdam

**POLAND**

**HUNGARY**

**USA**  
Wilmington,  
Delaware

**CHINA**

**2 PRODUCTION SITES**  
Masterbatches  
Powder blends  
Compacted and cold extruded blends  
Liquids additives blends  
  
Over 10000 mts/year capacity

- Italy
- China
- Holland
- Hungary
- Usa
- France
- Switzerland



# GREENCHEMICALS, our physical forms



# OUR LABORATORY



>>Twin screw lab extruder 27D

>>Lab molding machine

INSTRUMENT	FUNCTION
Viscometer	Determination of intrinsic or apparent viscosity of polymer solutions for molecular weight control.
Thermal Balance	High-temperature precision weighing for heat-sensitive samples in thermogravimetric analysis.
Izod	Impact testing for dynamic fracture resistance of notched plastic specimens (ISO 180 standard).
Glow Wire	Simulates flammability for glow wire ignition testing (IEC 60695-2-1) on plastic electrical components.
UL Test	UL 94 flammability tests (V0/V1/V2 ratings) for flame retardancy classification of materials.
Density Balance	Measurement of apparent or relative density for filler and polymer foam characterization.
Titration	Automated quantitative analysis of acids, bases, or ionic additives via potentiometric titration.



# OUR LABORATORY

In our laboratory we conduct tests and research to guarantee the best quality products, find tailor-made solutions, and innovate with new formulations.



INSTRUMENT	FUNCTION
IR spectrophotometer	Fourier Transform Infrared (FT-IR) spectroscopic analysis for qualitative chemical identification of polymers, additives, and contaminants in plastic materials.
DSC (Differential Scanning Calorimetry)	Measures thermal transitions ( $T_g$ , $T_m$ , crystallinity) and thermal stability of polymers and compounds.
TGA (Thermogravimetric Analysis)	Evaluates thermal decomposition, filler content, moisture, and residues in plastic samples.
HPLC (High-Performance Liquid Chromatography)	Separation and quantification of organic additives, oligomers, and impurities in polymers.
Melting Point	Precise determination of melting point for pure polymers or formulations in quality control.
Dynamometer	Tensile, compression, and flexural testing for mechanical characterization (elastic modulus, strength).
Melt Flow Index (MFI)	Measures melt flow rate to assess processability and degree of polymerization.



# GREENCHEMICALS TRADING - Our additives range



- FLAME RETARDANTS:  
HALOGEN-FREE, LOW HALOGEN  
AND ANTIMONY TRIOXIDE FREE
- HALOGENATED  
FLAME RETARDANTS, ANTIMONY  
TRIOXIDE
- UV ABSORBERS & HALS
- ANTIOXIDANTS
- OPTICAL BRIGHTENERS
- PEROXIDES



- NUCLEATING AGENTS
- PROCESSING AIDS



- MOULD RELEASERS
- CHAIN EXTENDER &  
I.V. ENHANCERS
- STABILIZERS
- LUBRICANTS
- ANTI-BLOCK &  
ANTI-SPLITTING AGENTS



# GREENCHEMICALS TRADING - Market we serve

COMPOUNDERS  
(PP, PA, PE, HIPS, ABS,  
PC/ABS, TPU, TPV...)



PVC COMPOUNDERS



MASTERBATCHES



ONE-PACK PRODUCERS



## COMPOUNDERS & MASTERBATCH PRODUCERS

Halogen free solutions and low Halogen solution for all the polymers.  
In powder, powder blends, compacted and cold extruded physical form.

# GREENCHEMICALS SOLUTION - Our additives range



## MASTERBATCHES

FLAME RETARDANTS

ANTIOXIDANTS AND UV  
MASTERBATCHES

PROCESSING AID

NUCLEATING

I.V. ENHANCERS

ANTI-FOG, ANTI-SLIP, ANTI-BLOCK

IMPACT MODIFIER

**TAILOR MADE**

## POWDER BLENDS COMPACTED NDB

FLAME RETARDANTS

ANTIOXIDANTS AND UV

PROCESSING AIDS

PEROXIDES

ORGANIC NUCLEATING AGENTS

MOULD RELEASE

**TAILOR MADE**

## LIQUID BLENDS

FLAME RETARDANTS

ANTIOXIDANTS

STABILIZERS

LUBRICANTS

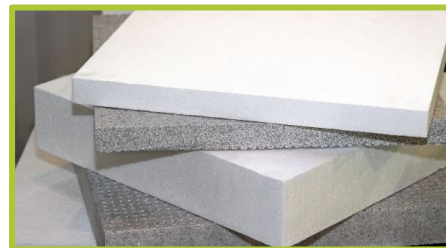
ANTI-DIANTS WATER SOSPENSION

**TAILOR MADE**





## FOAMS



### XPS BUILDINGS

- HBCD Free masterbatch solutions
- Nucleating masterbatches
- Processing aid masterbatches
- Color masterbatch



### EPS

- Monomeric and Polymeric FR
- Peroxides
- Antioxidants
- Anticaking agents



### POLYURETHANE

- Flame retardants
- Catalysts
- Antioxidants



### XPE

- Flame retardant masterbatches
- Peroxides masterbatches
- Busters
- Stabilizers
- Processing aid masterbatches



### XPS FOOD

- Antistatic masterbatches
- Nucleating masterbatches
- Color masterbatches



## POLYMERS PRODUCERS



POLYOLEPHINES PRODUCERS  
(PE and PP)



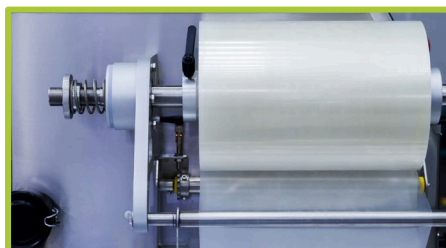
STIRENICS PRODUCERS  
(PS, HIPS, ABS, SAN)



RUBBER PRODUCERS



THERMOPLASTIC POLYMERS  
PRODUCERS

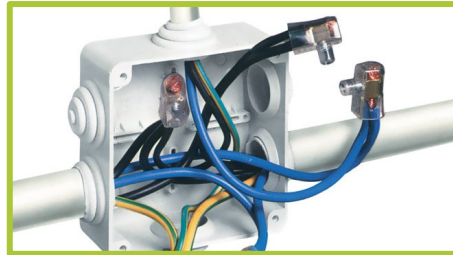


AGRICULTURAL AND  
INDUSTRIAL FILMS



# GREENCHEMICALS SOLUTIONS - Market we serve

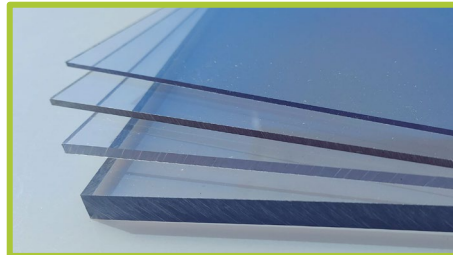
ELECTRICAL APPLICATIONS



POLYURETHANE



PET - PC - HIPS SHEETS



PA - PET FIBRES



**END  
USERS**

We offer tailor made solutions of flame retardants and additives,  
working on lowering environmental impact and in different physical forms!



## END USERS



COATINGS



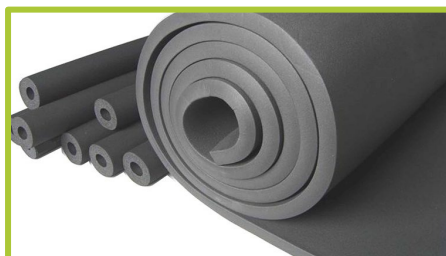
PIPES



WIRES & CABLES



ADHESIVES



PVC – NBR FOAM

# GREENCHEMICALS RECYCLING

## CHEMICAL-MECHANICAL RECYCLING TECHNOLOGY

We develop reactive solutions for extrusion recycling process, in order to improve the quality of recycled polymers.



Chemical-mechanical technology to recycle HBCD-EPS boards. (Patented)



Chemical-mechanical technology to recycle flame retardant plastics. (Patented)



## PRODUCTS

- MB PS HBCD CHILLER
- MB PS POX series (high performance stabilizer for recycled polymers)
- MB PS POX 20.4 series (high performance stabilizer for recycled polymers containing flame retardants)
- GC ULTRASTAB (stabilization package for flame retardant compound)
- MB PA ED73 (stabilization package for halogen free flame retardant polyamide)





# GREENCHEMICALS RECYCLING



## CHEMICAL-MECHANICAL RECYCLING



Greenchemicals built the first **PET DEPOLYMERIZATION PLANT**, combining the technologies of chemical and mechanical recycling and starting from the dirty flakes coming directly from the landfill.

The resulting product is a **POLYESTER OLIGO-POLYOL** that can have many applications (PU, adhesives, coating, paints...):

**OLPET**

## HALOGEN FREE OR LOW HALOGEN SOLUTIONS

- PP V0**
  - GC PP HF 1000
  - GC PP HF 200
  - GC PP FLAM V0
- PP V2**
  - GC DRIPP HF 70
- PA V0**
  - GC PW V0 PAP12
  - GC PW V0 PAP14
  - GC PW V0 PAP40 ST
- PC V0**  
transparent
  - GC PC V0 HF90
- HIPS V2**
  - GC TIME PLUS

## RECYCLING TECHNOLOGY

- PET CHEMICAL MECHANICAL RECYCLING: GC OLPET PACK
- XPS FOOD RECYCLING PROJECT: ORACLE
- MECHANICAL PROPERTIES POLYMER RECYCLING IMPROVEMENT:
  - GC MB POX 20
  - GC MB POX 20-4

## HBCD CONCERNS

- HBCD free solutions for **XPS, XEPS, EPS**
- HBCD CHILLING RECYCLING TECHNOLOGY ( **GC HBCD CHILLER®** )

## ATO (Antimony Trioxide) FREE

AT ZERO RANGE  
for PA, PP, PE, HIPS, PVC

## CONCERNING MOLECULES REPLACEMENT

- GC UV 326 FREE 26 → GC UV GREEN
- GC TCPP → GC HYPER TEP DIFFERENT
- GC DPE 81 SOLUTIONS → DIFFERENT
- GC BDDP68 SOLUTIONS → DIFFERENT

## NEW PHYSICAL FORMS AVAILABLE FOR HALOGEN FREE SOLUTIONS:

- COMPACTED
- COLD EXTRUDED PELLETS



In 2024 Greenchemicals Srl's family expanded with the acquisition of Polichem. Together, the two companies are marking a pathway in the plastics world toward innovation and sustainability.

**POLICHEM DEVELOPS INNOVATIVE ADDITIVES FOR THE PA AND PET APPLICATIONS, ENHANCING SUSTAINABILITY IN PRODUCTION CYCLES AND DELIVERING EFFICIENCY WITH A GREENER IMPACT.**

Polichem's range includes: nucleating agents, chain extenders, lubricants, processing aids, stabilizers, and mould releasers.





Addibatches is our branch fully dedicated to functional additives for **industrial film**, **agricultural applications** and **food packaging sectors**.

**We source raw materials, directly from producers.** This brings many advantages:

- We are always sure about the quality and the source of the additive;
- We always have a large stock of raw materials, so we can produce masterbatches in a very short time;
- We reduce logistics to guarantee a more environmentally friendly and cheaper products.

**We produce only Polyethylene masterbatches:**

- We have dedicated extrusion lines for a high-quality production;
- We have a high level and dedicated laboratory



Addibatches' range includes: anti-blocking, antistatic, processing aids, slip agents, stabilizers, cleaning aids, anti-mist solutions.

From 2022 Greenchemicals has obtained the distribution of **NOFIA FRX products**: Halogen free polymeric flame retardants.

These flame retardants can be homopolymers, copolymers or oligopolymers.

## THEY HAVE SEVERAL ADVANTAGES:

- They are Halogen Free
- They have a low environmental impact
- They are chemically more resistant
- They don't migrate
- They are available on the market
- They are low cost



## NOFIA RANGE:

PRODUCT	APPLICATIONS
<b>NOFIA CO 6000</b>	Polycarbonate & Polycarbonate Blends
<b>NOFIA HM 1100, HM 9000 &amp; HM7000</b>	PET, PTT, PBT, PLA, PC, TPU, TPEE
<b>NOFIA HM 5000</b>	PET, PBT, TPE, TPU, UPE
<b>NOFIA OL 1000</b>	Polyurethanes





We started  
carbon footprint processes

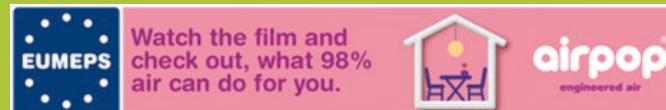
Greenchemicals complies with REACH, CLP, SVHC, Food Contact, RoHS regulations.

### QUALITY MANAGEMENT SYSTEM

Greenchemicals decided to adopt a Quality Management System (QMS) of ISO 9001 to improve the ability to integrate and coordinate all activities associated with the quality.



Membership:





# Where We Are in the world

# Contact Us!



## HEADQUARTERS (ITALY):

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## HUNGARY

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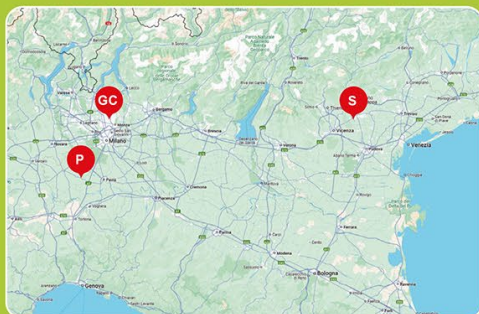
## CHINA

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## POLAND

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## Where We Are in Italy:



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**SETA**  
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 : /polichem



Company Profile