



La seconda vita della plastica.



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# Caldara Plast

Upcycling plastics and compounding since 1963



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...a new life for plastic

**Caldara Plast** has been in the business of plastic scraps collecting since 1963 when its founder, Mr. Innocente Caldara, started out a small business in the field of plastic collection, which in those years were treated as simple waste, without alternative uses.

However Innocente already saw in those scraps a resource to be regenerated and bring back to life, in an *ante litteram* concept of **circular economy**.

Today Caldara Plast is a **medium-sized Company** and developed its activity in the plastics processing, regeneration and trading, successfully run by Innocente's sons Massimiliano, Attilio and Alessandro.

With **over 55 years' experience**, it has today 2 specialized production sites: the **Recycling Division** and the **Compound Division**, more than 40 employees and an annual revenue of 15 million euros in 2018.



# RECOVERY BRANCH

The **Recovery Branch** in Erba (CO) specializes in the management and recovery of waste of different types of plastics materials, including ABS, SAN, PST, PMMA, PC, PP, PE, PA, etc. The headquarters is spread over an area of about **13,000 square meters**, of which **2,500 are covered**.

The new **warehouse**, always in Erba, has a surface of 3600 mq covered, for the storage of the finished product. The base of the Caldara Plast's business is represented by industrial waste deriving from the plastics processes such as molding, thermoforming, extrusion and blow molding, from semi-finished and assembled products compatible with our work, obsolete stocks, and homogeneous ground materials.

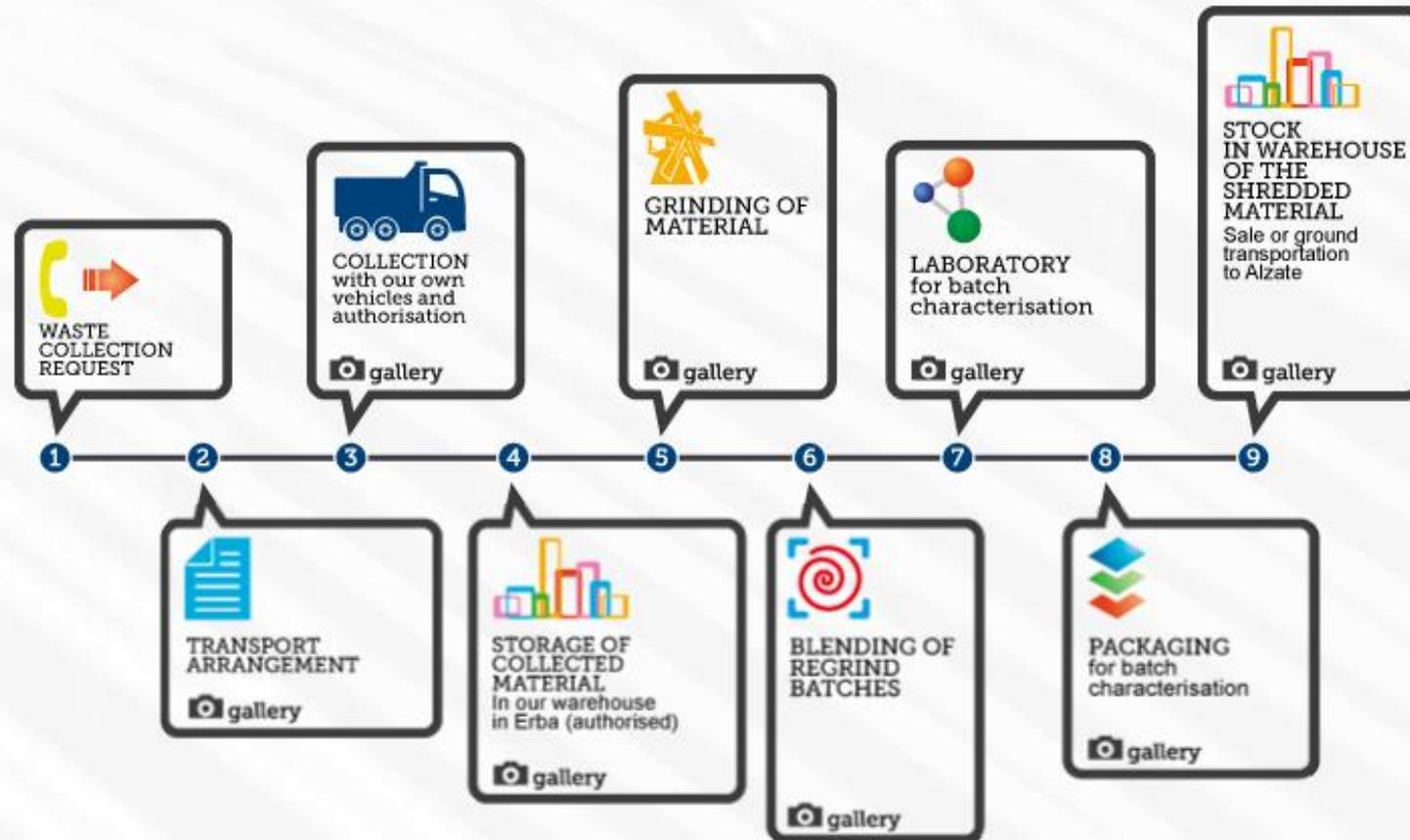
We collect, transport, regrind and stock various plastics materials, the sectors of origin are household, biomedical, telephony, gardening, electronics, technical articles, cosmetics, automotive, furniture and construction.



In all North and Center of Italy we provide directly of the pick-up with our own vehicles, and with the relative authorizations according to the Italian law for the transportation and management of plastics waste material. We provide companies with special tanks, demountable containers or presses for the collection of material for recovery.

# PRODUCTION CYCLE– RECOVERY BRANCH

WASTE OF PLASTICS  
MATERIALS THAT WE COLLECT  
AND REGRIND:



ABS

SAN

PST

PMMA

PC

PP

PE

PA

PC/ABS

Etc.

# COMPOUND BRANCH

The **Compound Branch** in Alzate Brianza (CO) specializes in the production and trade of plastic compounds, especially technical polymers. The Branch is spread over a total surface of about 40,000 square meters, with a covered area of 13,000 square meters.

The regrinded material is processed, added and/or pigmented, then extruded with special single screw extruders, or twin screw extruders, vertical mixers and 7 silos with the capacity of around 130mc each.

We analyse individual italian and international clients' requirements and needs in order to supply **taylor-made products**. We usually start from the secondary raw material, the regrinded waste from our Recovery Branch.

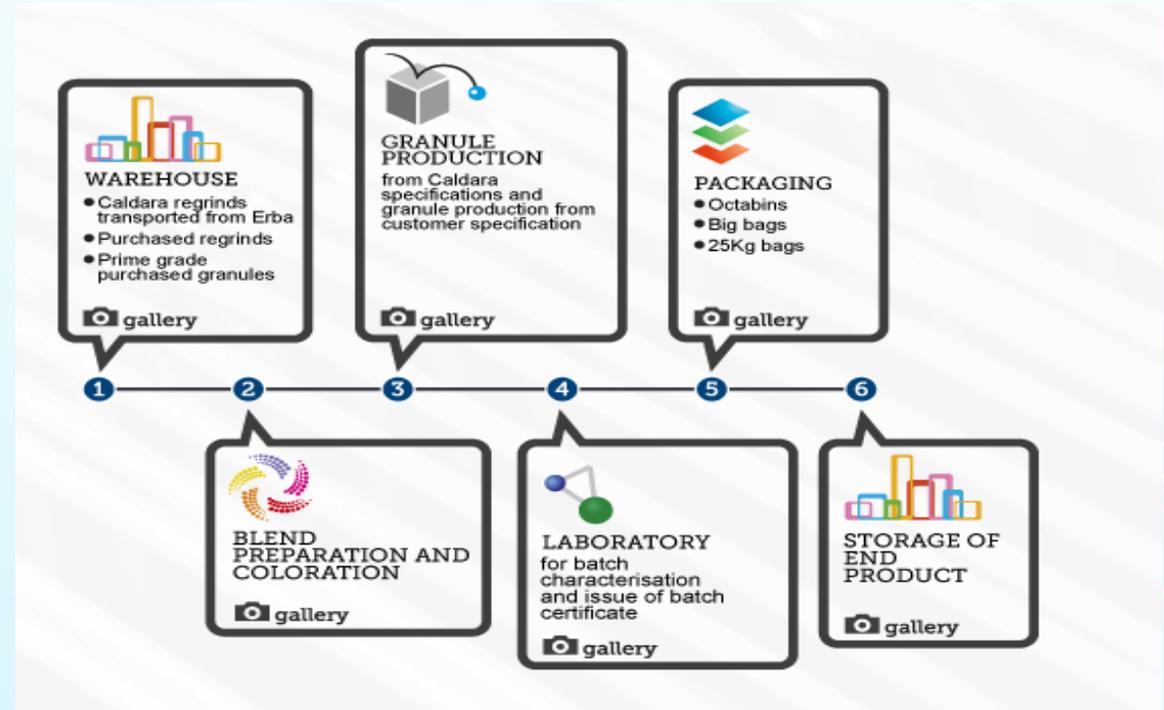


The granulate materials we produce are mainly ABS, PC/ABS, PC, PS, PA, PBT, PPS, PMMA, POM, BLEND & ALLOY, etc.

We provide an accurate customer service, specialized technical advices, after-sales service, speed and punctual delivery.

# PRODUCTION CYCLE– COMPOUND BRANCH

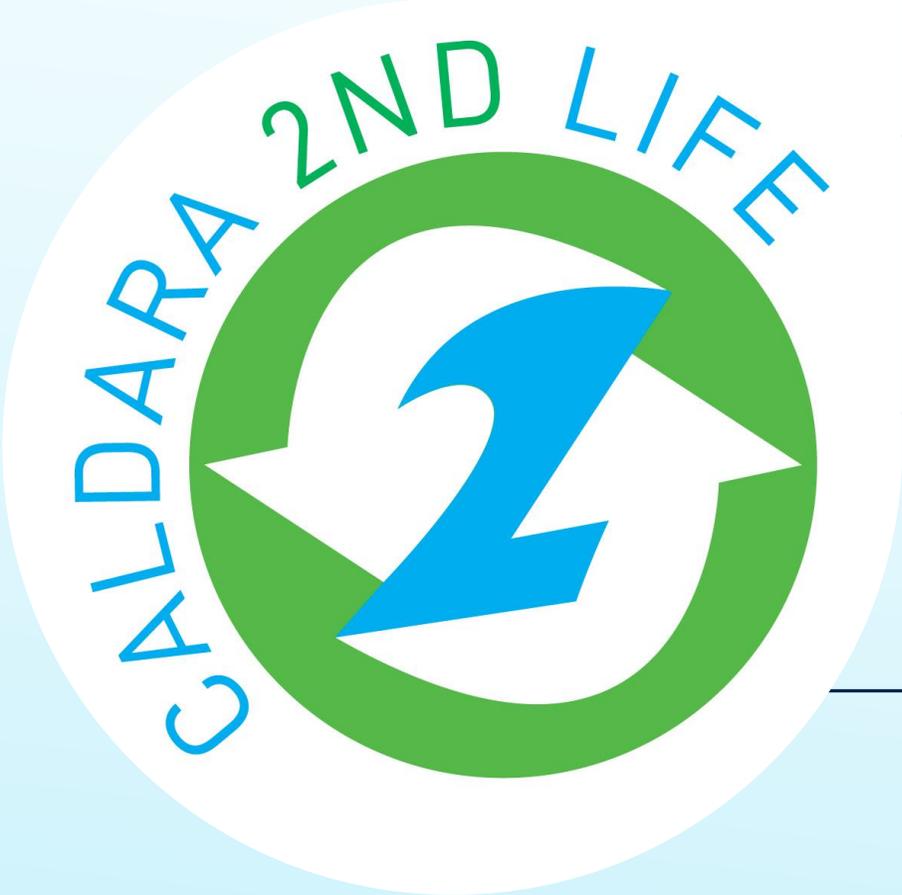
- 13 EXTRUSION LINES, WITH SINGLE AND TWIN SCREW
- VERTICAL MIXERS, TO OPTIMIZE THE PRODUCTION
- OUTPUT CONTINUOUSLY – H24 MONDAY TO SATURDAY
- 70 TONS PER DAY OF COMPOUND EXTRUDED - ABOUT 18.000 TONS PER YEAR
- 7 SILOS WITH THE CAPACITY OF AROUND 130mc EACH



ABS 30%	PC/ABS 19%	PC 10%	PS 8%	PA 17%	PBT 5%	PPS 5%	PMMA 2%	POM 4%	BLEND & ALLOY	Etc.
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# CERTIFIED RECYCLED COMPOUNDS

## «CALDARA 2ND LIFE»



**Global  
Recycle  
Standard**



**Plastica  
Seconda  
Vita – Scarto  
Industriale**



**Plastica  
seconda  
Vita -  
Mixeco**



## IN-HOUSE LABORATORY

Caldara Plast has an in-house lab equipped with specific instrumentation, where our technical staff constantly checks the quality of products entering and leaving the company to guarantee sustained high standards, meet specific client requests and comply with legislation in force. We guarantee customisation of every article, with production matched to client's sample. We make different compounds from various polymers, using both regenerated and premium quality materials. Pigmented, Self-extinguishing, Reinforced, UV stabilised, Elastomers, Heat resistant

# EACH PRODUCTION LOT HAS TO PASS RIGOROUS CHECKS, CARRIED OUT BY SPECIFIC EQUIPMENT:

## Checks:

- ▶ DENSITY
- ▶ HUMIDITY
- ▶ SOFTENING POINT AND HEAT DISTORTION TEMPERATURE
- ▶ IMPACT RESISTANCE (IZOD, CHARPY)
- ▶ FLEXION / TRACTION FOR LOADS AND ELASTIC MODULES
- ▶ MFI / MVR FOR COLOR CHECK (TRANSMISSION / REFLEXION)
- ▶ GWFI / GWIT FLAMMABILITY INDEX – INJECTION TEMPERATURE
- ▶ TEMPERATURA DI FLEXION / CRYSTALLIZATION AND GLASS TRANSITION
- ▶ IR
- ▶ GLOSS
- ▶ SELF-EXTINGUISHING, IN ACCORDING TO UL 94
- ▶ ASTM/ISO



## Specific Equipements:

- ▶ WEIGHT SCALE FOR DENSITY CHECK
- ▶ WEIGHT SCALE WITH HALOGEN HEATING
- ▶ VICAT / HDT – CEAST / INSTRON
- ▶ PENDULUM – CEAST / INSTRON
- ▶ INSTRON DYNAMOMETER
- ▶ MELT FLOW INDEX CEAST
- ▶ GWT ATTREZZATURE TECNICHE SPECIALI
- ▶ DSC 4000 PERKIN ELMER
- ▶ IR SPECTRUM TWO PERKIN ELMER
- ▶ GLOSSMETER ZEHNTNER
- ▶ BUNSEN
- ▶ 5 INJECTION PRESSES FOR SAMPLE AND FICHES MOLDING

# QUALITY CERTIFICATIONS



# CALDARA PLAST: CIRCULAR ECONOMY SINCE 1963



Caldara Plast performs all processes in compliance with current regulations, to protect the environment and beyond. The industries that deal with plastic materials and who choose Caldara Plast as a specialized partner can in fact re-allocate pre-consumer materials, with tangible economic and commercial advantages, always in total respect for the environment.

The processing waste is thus destined for new processing phases, without dispersion and without the pollution of the territory. The recycling activity of Caldara Plast guarantees an important energy saving and CO2 emissions linked to the non-production process of the polymer, enhancing a production waste that would otherwise be managed as waste, with all the environmental damage that would result.

Modern technologies allow us to obtain a regenerated product that is close to the first choice material but with a much more limited environmental impact, both in terms of CO2 emissions in the atmosphere, which are significantly reduced, and as regards the reduction of resources used.

In 2018 Caldara Plast was included in the publication "100 Circular Economy Stories", the report that presented the champions in the circular economy in Italy, among the 100 Italian companies taken as a model because they were able to integrate innovation and sustainability as a strategic choice of competitiveness : "A hundred stories that tell us about an Italy that 'makes Italy' and innovates without losing its soul. Realities that speak to us of a more sustainable and competitive model, of a fairer economy and society, that could represent the Italian answer to the burning questions that the present and the future pose to the Planet ".



Plastic's  
second life



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[www.caldara.it](http://www.caldara.it)

### Our mission:

Reduce non-recyclable plastic waste to a minimum

Promote the cultures of using regenerated material, considerably reducing use of virgin raw materials

Let's make plastic **green** together!



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