



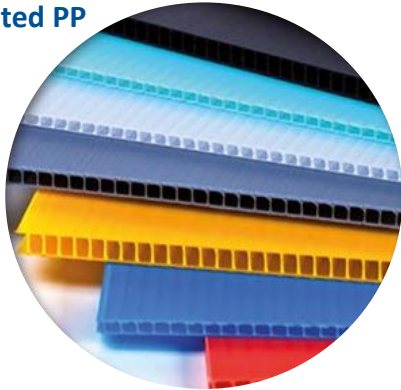
SUSTAINABLE SECONDARY PACKAGING



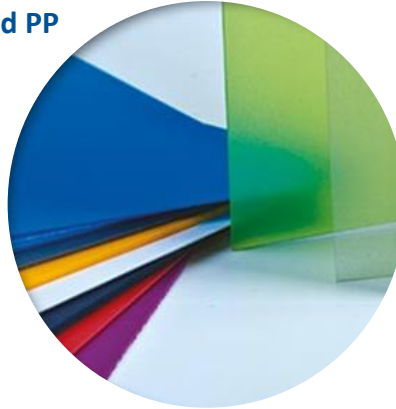
Ondaplast: polypropylene specialists

Ondaplast is a leading European company in the sector of PP packaging owning 2 brands:

Polionda®
Corrugated PP



Ondaplaque
Solid PP



Ondaplast means industrial packaging, therefore sheets are also converted into final products such as containers of any kind, packaging, layer pads and so on.

- Innovative Solutions
- Highest Level of Service
- Total Quality
- Sustainability
- Reliability

Industrial footprint

Ondaplast owns **2 production plants**, one in Italy (Longiano, FC) and one in Serbia (Subotica).

The two locations are strategic to serve the West and the East of Europe, and can serve as **reciprocal back-up**.

Each plant operates with a **complete vertical integration**: the whole production process takes place under the same roof, to guarantee short delivery times and the constant control of the quality.



Focus on pharmaceutical packaging



Ondaplast is highly focussed on the pharma industry.

The main products are boxes, trays, lids, spacers and other custom solutions.

Every new article is carefully designed and tested to provide top performance and satisfaction.

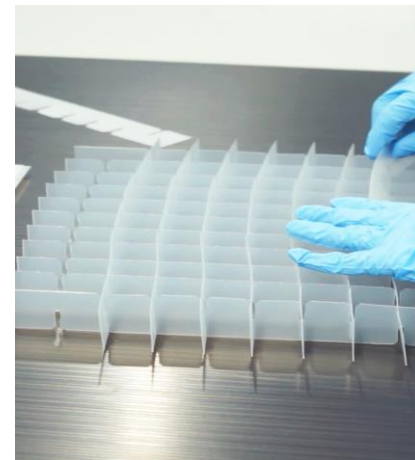
Each Ondaplast plant has its own «Pharma room», with controlled access and environment.

The air is filtered and pressurized, while the technicians receive specific training to respect the **highest standards of hygiene**.

In these rooms the products are assembled, packaged and inspected before the delivery.

Ondaplast has developed specific procedures for pharma in Pharma booklet

<https://www.youtube.com/watch?v=W0XconGz57c>



Secondary PP packaging can be more sustainable than it is today

- Fiber free - No dust
- Chemically and Biological inert
- Boxes, layers, trays, lids, dividers
- Easy for sterilization Gamma Ray and ETO
- Safety stock possibility



Perspective in Pharmaceutical Packaging

- Estimated 25.000 tons of yearly consumption
- Constant growing of the business with a CAGR 5,0%
- Bulk and glass containing stable
- Sterile business in huge acceleration

- Sensibility and focus of all actors turned on enviromental impact

- Demand of sustainable solutions, in the direction of Circular Economy is becoming a key driver for business

How it works – Two main roads can be driven on

1) Biobased polymers

This has been already explored and tested and is actually in a industrialization phase. Results are interesting and the perspective is to replicate in the medium period workability and performances of the conventional polymers. The **critical point is availability** and the need of specific equipment. Furthermore, the waste generated during production needs to be treated as a «special waste» due to EU regulation.

2) Formulations including an important quota of recycled PP

Ondaplast does this since the beginning of its activity 40 years ago. The key advantage is that there is no lost of mechanical properties. Today limit is regulation/restriction existing in Pharma world for using recycled raw material.

This is what we're doing and it's an opportunity already available for our customers.

Ondaplast is already a leader in packaging for hollow glass industry supplying layerpads suitable for food contact

KEY BENEFITS

Strategic:

Less CFT

Less resources consumption

Proven: as per the table **38%** less of CO₂, working on the **raw material** origin as the **key factor**

Profitable:

Saving money on packaging price

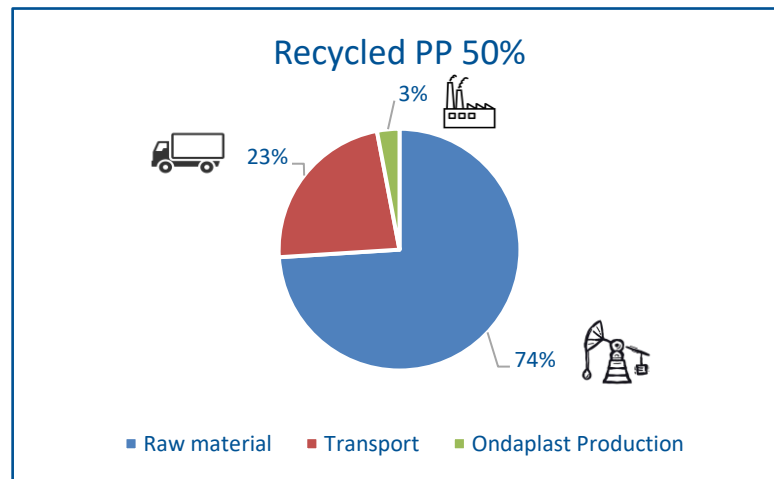
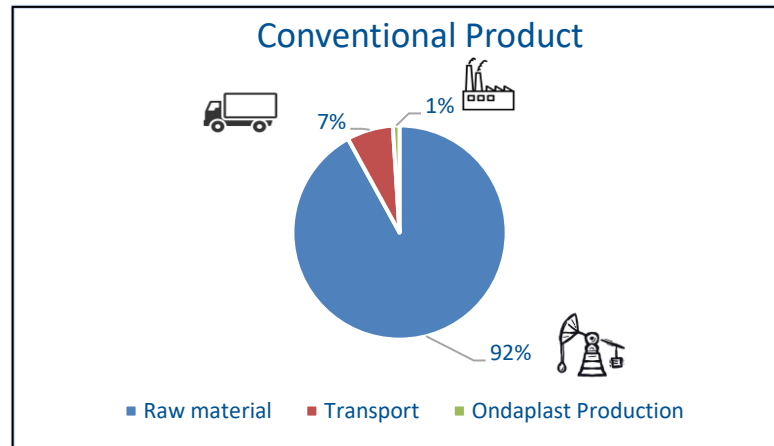
Awereness effect

Conventional virgin RM product

PP	0,814	92%
Ondaplast	0,008	1%
EXW	0,062	7%
Total	0,884	100%

50% recycled RM product

PP	0,407	74%
Ondaplast	0,016	3%
EXW	0,124	23%
Total	0,547	100%



Next steps

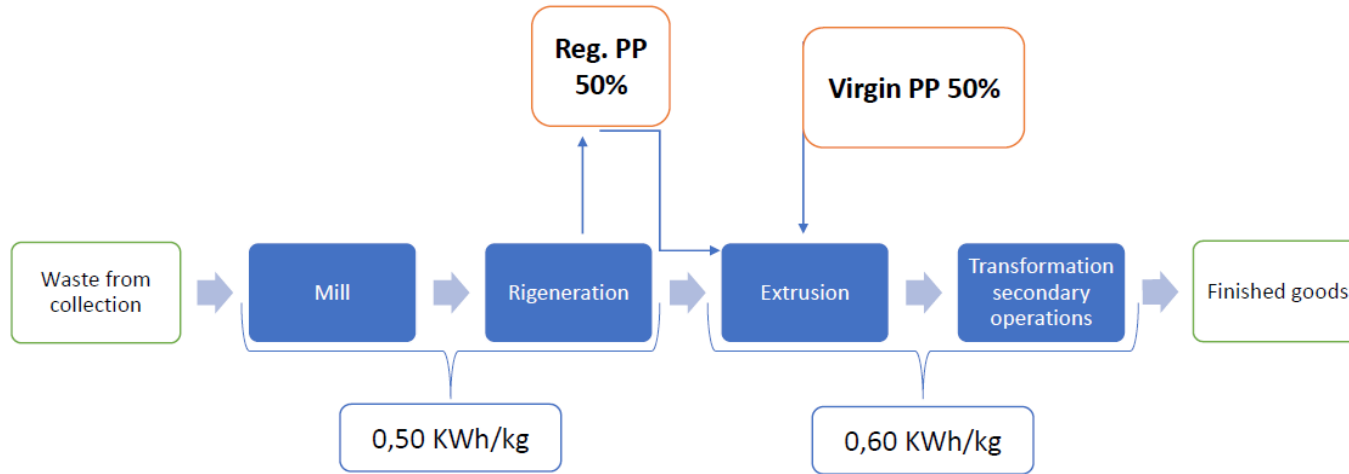
What should be done: the key factor is to create a closed loop, **based on collecting points**, with customers thought which being able to collect the goods after usage in order to eliminate disposal.

We are now working with one key player, multisite and with a wide range of drugs containment and drug delivery systems for testing the real feasibility and to verify the limits of logistics.

Project is ongoing and should enter in the effective phase in Q1 2024



Consumption model Ondaplast



$$0,60 \text{ KWh/kg} + 0,50/2 \text{ KWh/kg} = 0,85 \text{ KWh/kg}$$

Sustainability



Focus on environment

Developing solutions to meet customer's and environment's needs at the same time is a key part of our Mission and we are committed to:

- Reduce the internal waste to zero, through a complete recycling of all our scrap materials
- Reduce the consumption of energy, through the use of solar panels + increased machine efficiency. In 2023 we plan to cover 1/3 of our installed power through solar panels
- Buy back post-consume materials (circular economy), cause PP is one of the cleanest polymer, 100% recyclable
- Today we're already using 30% of recycled plastics
- Develop bio based and compostable materials

