

COMPANY PROFILE

VINCITORE
OSCAR DEL CIMENTI LAGGIO®
BEST 2022
PACKAGING

AGENDA



THE COMPANY

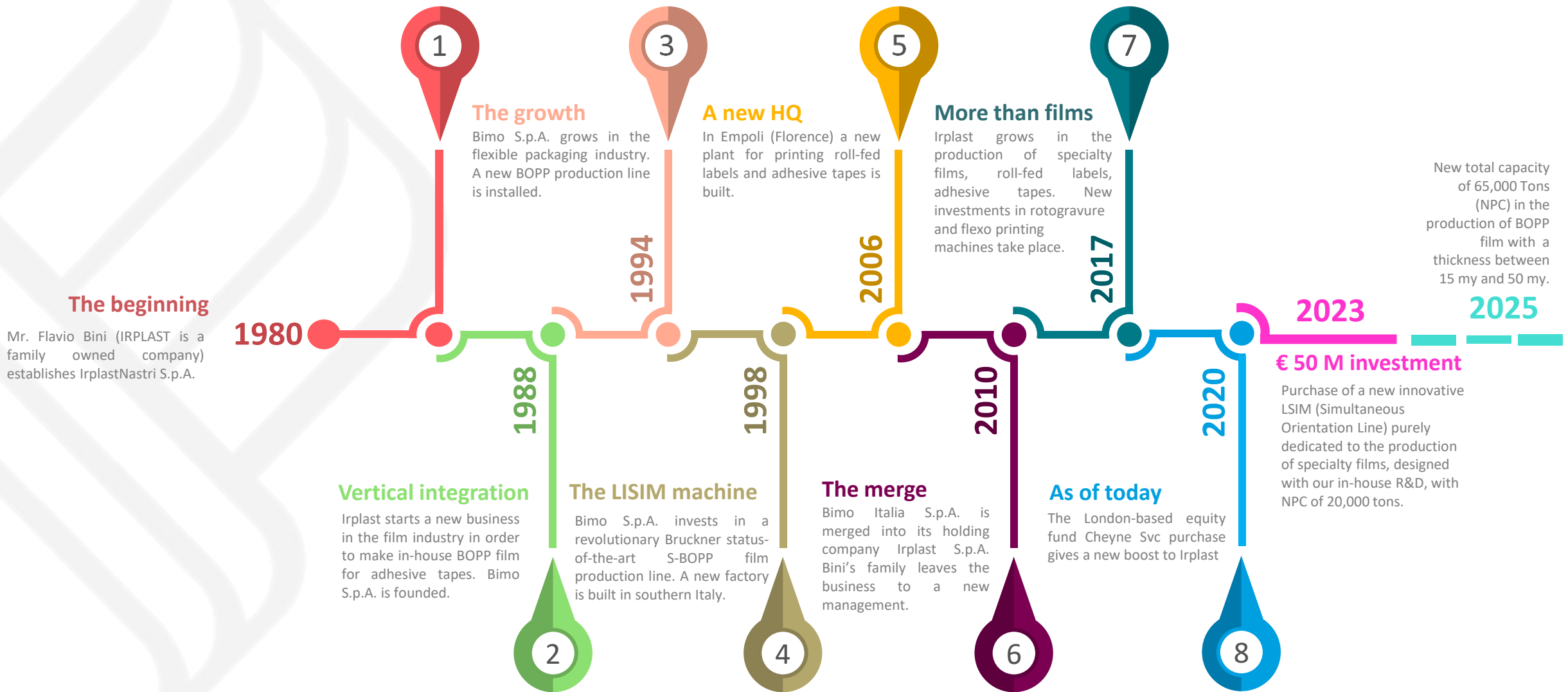
PRODUCTS OVERVIEW, CAPACITY

PRODUCTION PROCESSES, CAPACITY & INVESTMENTS

CERTIFICATIONS, R&D, TECHNICAL ASSISTANCE

IRPLAST APPROACH TO SUSTAINABILITY

THE COMPANY



IRPLAST AT A GLANCE



The first European
vertically integrated producer of

simultaneously biaxially oriented
polypropylene (S-BOPP)

- ✓ **specialty films**
- ✓ **adhesive tapes**
- ✓ **printed labels**

Our 360 employees in two production sites in Italy provide
innovative packaging solutions on a global basis.



100%
Made in Italy



3 plants



360 people



2 R&D
Departments



75% of business
delivered worldwide



Since
Sept. 2020

94M€



EBITDA 11,8M€

108M€



EBITDA 7,4M€

138M€



EBITDA 13,1M€

106M€



EBITDA 11,1M€

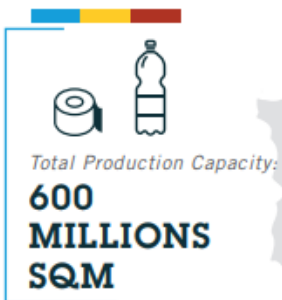
PRODUCTION SITES

PRINTING LABELS / ADHESIVE TAPES EMPOLI (FI), ITALY

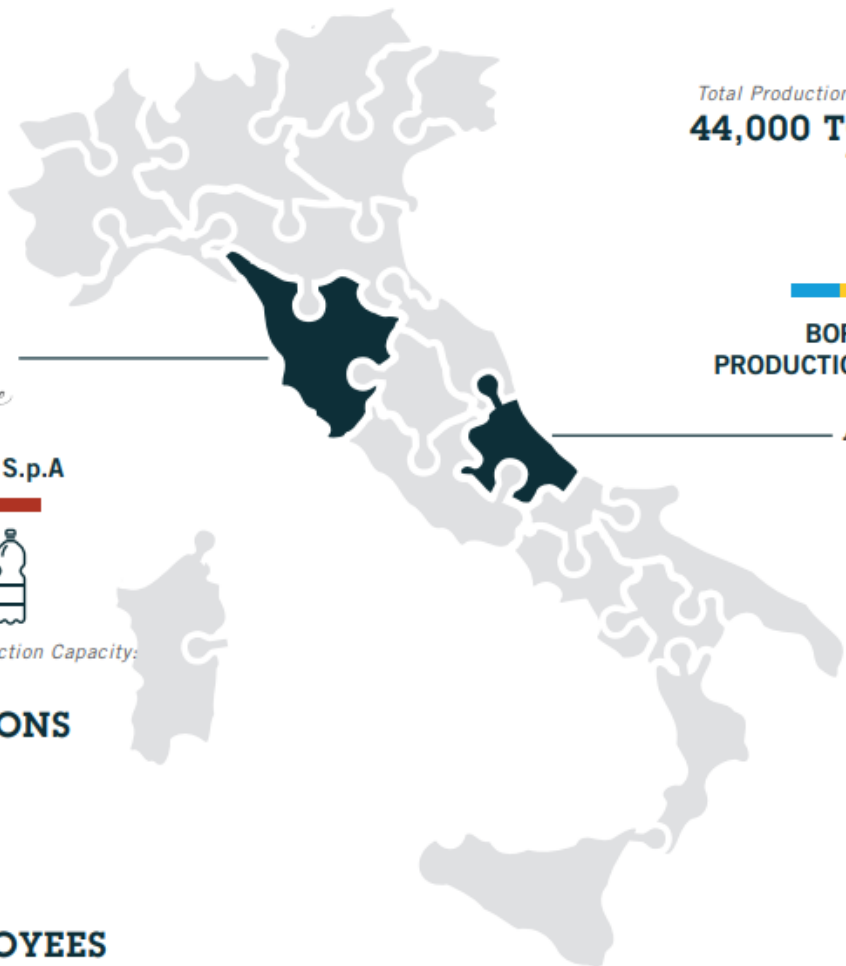


- 80,000 sqm (26,000 sqm indoor)
- N. 8 printing machines
- N. 4 coating machines

EMPOLI
Firenze
IRPLAST S.p.A



NO. 180
EMPLOYEES



NO. 180
EMPLOYEES

Total Production Capacity:
44,000 TONS / YEAR

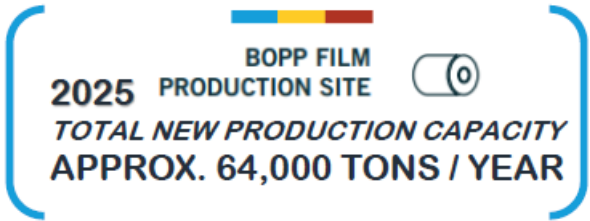
**BOPP FILM
PRODUCTION SITE**

ATESSA
Chieti

SOPP FILM EXTRUSION ATESSA (CH), ITALY



- 100,000 sqm (40,000 sqm indoor)
- N. 2 plants
- N. 3 film extrusion lines



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PRODUCTS OVERVIEW

BOPP FILM DIVISION

aka BIMO

TOBACCO



BOPP or S-BOPP film for cigarette pack wrap or clear collation

ISCC CERTIFIED SPECIALTY FILMS



Peelable films, shrinkable films, envelope window films, film for labels, clear and metalized films for snacks and bakery laminates, S-BOPP specialty films for customized applications

THERMOSTABLE FILMS for MONOMATERIAL MULTILAYER PACKAGING



PRODUCTS OVERVIEW

PRINT TAPE DIVISION

GREEN LINE

100% RECYCLABLE - Cores and boxes made from 100% recycled paper

Carton sealing

ACRYLIC



EXTRAGLUE+



HOTMELT



TACK+



Specialty products

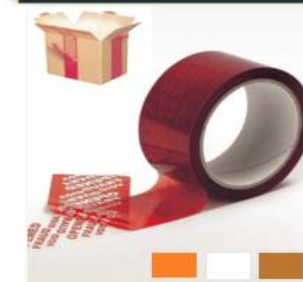
OPEN & CLOSE



FOOD CONTACT



TAMPER EVIDENT



SPOOL TAPE



NOPP+



NOPP



LOOPP



AIRTAPE+



ECO+80



ECO+50



POLY+



LABELS & MULTIPACK SOLUTIONS

LABEL TECH DIVISION

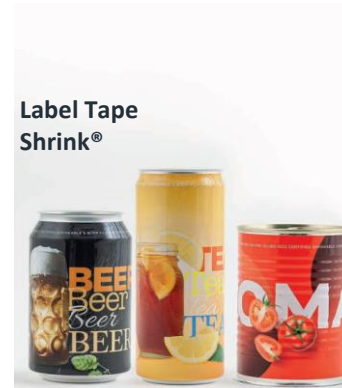
ROLL-FED



PRE-GLUED



PRE-GLUED SHRINKABLE



MULTIPACK SOLUTIONS



- Adhesive bundles for multipack.
- Removable adhesive.
- Green solution to reduce plastic.

SHRINK SLEEVES



- PETG films
- Tamper evident seal
- Full-body covering

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PRODUCTION PROCESS – BOPP film division

BOPP & S-BOPP FILM EXTRUSION LINES



Production capacity: 44,000 tons per year (2 factories)

Equipment:

- n.1 Brückner LISIM S-BOPP film 6,6m line
- n.2 Tender-frame traditional BOPP film 7,2m lines

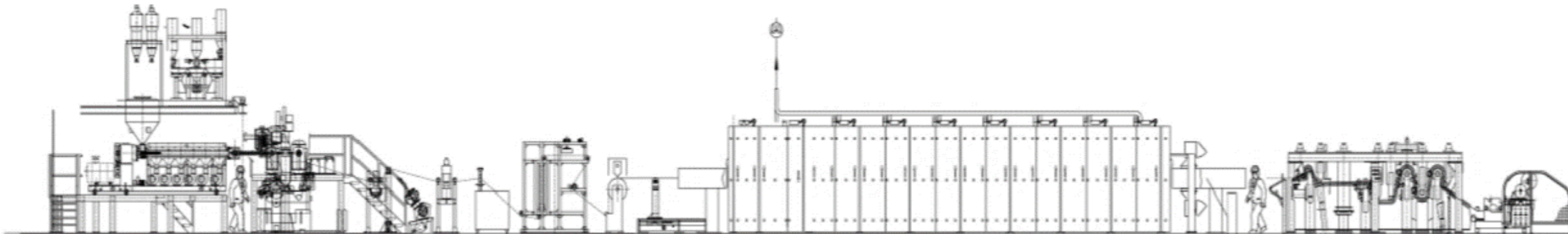
AUTOMATIC SECONDARY SLITTERS



Slitting Capacity: 50 tons per day

Equipment:

- n.2 Kampf
- n.6 Technicol



PRODUCTION PROCESS

ROTOGRAVURE PRINTING



☐ N.2 rotogravure printing machines

- BOBST 4003MP (up to 10 colours, 450m/min)
- BOBST ROTOMEC RS4000

FLEXO PRINTING



- ☐ N. 2 Bobst (8 colours)
- ☐ N. 2 Uteco (8 colours)
- ☐ N. 4 Stack (2 colours)

COATING & SLITTING



- ☐ N.16 Slitters
- ☐ N. 1 laminating machine
- ☐ N. 1 laminating/coating machine
- ☐ N. 4 coating machines (3 acrylic, 1 hotmelt)
- ☐ N.2 DCM shrink sleeve seamers
- ☐ N.1 BabyCat sleeve inspection machine

STORAGE & LOGISTICS



- ☐ N. 9000 pallet slots
(ASRS System Logistics)

- Automated warehouse
- Automated guided vehicles logistic system for semi-finished products

NEW LISIM LINE:



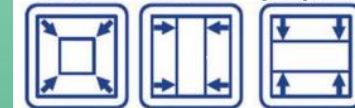
L4: The new innovative LISIM (Simultaneous Orientation Line) from Bruckner with NPC of 20,000 tons, based on LISIM technology (Linear Motors Simultaneous technology)



Enhanced mechanical properties



Customized shrink properties



Superior barrier properties



Low SIT sealing properties



It's specialized in the production of **three layers BOPP Film** with a thickness between **15µm and 50µm**

This line is purely dedicated to the **production of specialty films designed with our in-house R&D**

We're contributing with a new LISIM, **€50M investment**

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CERTIFICATIONS

ECOVADIS

IRPLAST SPA
has been awarded a
Gold medal

as a recognition of their EcoVadis Rating

- MARCH 2023 -



9001: 2015

14001:2015



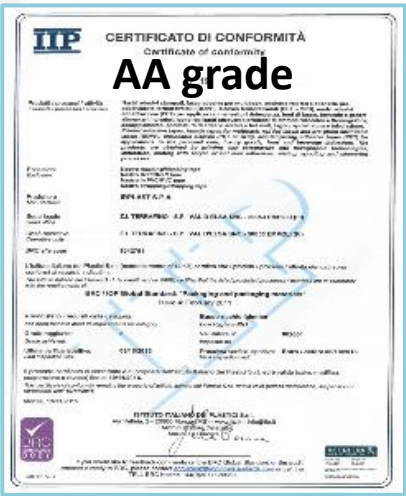
**Sedex Members Ethical
Trade Audit Report**



ISCC PLUS



BRC



AIB



DPG



RESEARCH & DEVELOPMENT – TECHNICAL ASSISTANCE – QUALITY CONTROL

Integrated R&D structure: n.2 synergic in-house laboratories, equipped with sophisticated instruments.

- Analysis of physicochemical, mechanical and optical properties of plastic films
- Analysis and characterization of inks and adhesives
- Co-engineering activities with the principal stakeholders
- New product design & prototyping
- Statistical monitoring of performance indicators



Technical assistance at end-users' plants to guarantee the correct performance of:

- Film on packing machines
- Adhesive tapes on carton sealing machines
- Labels and bundle tapes on labelling machines
- Shrink Sleeves on sleeving machines



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PROCESSES, PRODUCTS

Thanks to a **forward-looking focus on innovation**

Irplast's products can become part of the solution to the World's plastic consumption.

First we've reduced the environmental impact of our manufacturing processes.

NOW our customers are benefiting from **environmentally sustainable flexible packaging** available using **bio-based and PCW-based resins**, which both dramatically reduce fossil-fuel consumption and offer step-changes for the circular economy of plastic recycling.



IRPLAST APPROACH TO SUSTAINABILITY

PROCESSES, PRODUCTS

RECYCLE



- BOPP, a material 100 % designed for recycling: 80 % to the market, 20 % scrap (15 % internal recycle, 4,7 % recycled, 0,3 % actual waste)
- high quality r-pet requires inks and adhesives not to stain pet flakes during recycling process

REUSE



- Pre-guled labels for returnable pet bottle (e.g. ECORELABEL project)



REDUCE



- LESS CO₂ (70% self-generated electricity, self-% generated cooling/thermal power energy)
- LESS CO₂ supply chain
- LESS raw material usage
- down-gauging film thickness
- 95% reduction of packaging material

RENEWABLE



Using raw materials from renewable sources (tall-oil) or from chemically recycled post-consumer waste (by pyrolysis) allows IRPLAST to reduce CO₂ emissions, reduce fossil fuel consumption, and make a valuable contribution to kick-starting the circular economy for plastic usage (NOPP and LOOPP films).



*PP carbon footprint -24% vs PET:
switching from 1 ton of PET to 1 ton of PP gives a saving of 1t in CO₂ emissions

ECO+ tape

- -35% CO₂ emissions
- with 34% of post-industrial recycled BOPP film



NOPPtape
NATURAL ORIENTED POLYPROPYLENE

ISCC PLUS CERTIFICATION

Any retailer wishing to distribute these **ISCC-certified** products must be certified by ISCC to guarantee the chain of custody from the feedstock producer to the film manufacturer to packaging supplies.

IRPLAST NOPP films range is food contact approved and 100% ready to be recycled.

ON PACKAGING

If all parties in the supply chain are using ISCC PLUS certified films like NOPP or LOOPP, the packaging can show the ISCC logo as a guarantee of the integrity of the whole process, gaining the trust of the final consumer.



ISCC PLUS

ICIM

ISCC PLUS

ISCC PLUS Certificate

Certificate Number: ISCC-PLUS-Cert-IT204-20003991

ICIM S.p.A.
Piazza Don E. Mapelli, 75 – 20099 Sesto San Giovanni (MI)
ITALY
certifies that
Irplast S.p.A.
Via Italia, 13
66041 Atessa
Italy

complies with the requirements of the certification system
ISCC PLUS
(International Sustainability and Carbon Certification)

Place of the audit
(if different from the legal address of the system user as stated above, only applicable for paper traders):
n.a.

This certificate is valid from 10.01.2020 to 09.01.2021.

The site of the system user is certified as:
Production of bio-based film

The scope of the certificate includes the following chain of custody options:
Mass balance

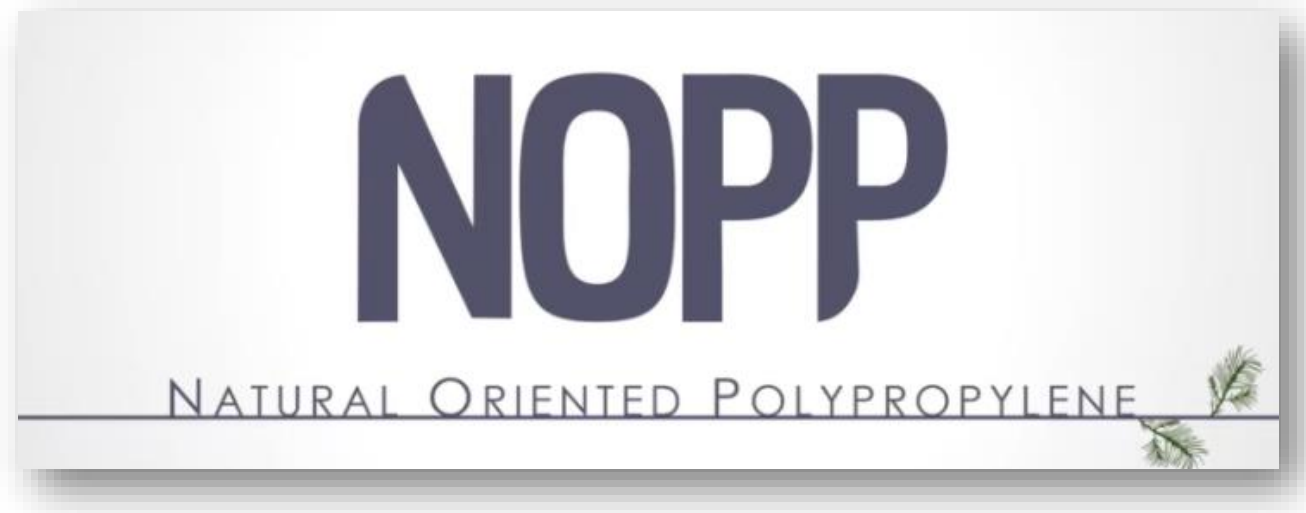
Sesto San Giovanni, 10.01.2020
Place and date of issue

Stamp, Signature of issuing party
202004 Sesto San Giovanni (MI)

The issuing Certification Body is responsible for the accuracy of this document.
Version / Date: 1 (no adjustments) / 10.01.2020

NOPP - A LOWER EMISSIONS BOPP FILM

Irplast **N**atural **O**riented **P**oly**P**ropylene films is carbon neutral by replacing fossil fuels, in the production of polypropylene resin made from ISCC PLUS certified renewable sources, with bio-based feedstock (tall oil), following the mass balance approach.

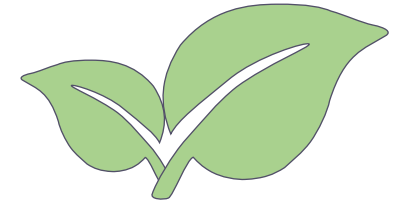


The waste vegetable oils are not of animal origin and do not compete with the food chain as they are a recovered by-product of the responsibly managed northern European forest industry.

Watch this video [here](#).

NOPP FILMS

GHG emission takeout global warming



NOPP film manufactured by Irplast is

CARBON NEUTRAL

thanks to the CO₂ sink provided by the forests and the virtuous recovery of the by-product, replacing 1Kg of traditional fossil-based BOPP removes approximately 4Kg of CO₂ eq from greenhouse gas emissions into the environment.

*LCA by Spinlife, a spin-off company of Padua University (Italy)

NOPP+: U.C.O. LOW EMISSIONS BOPP FILM

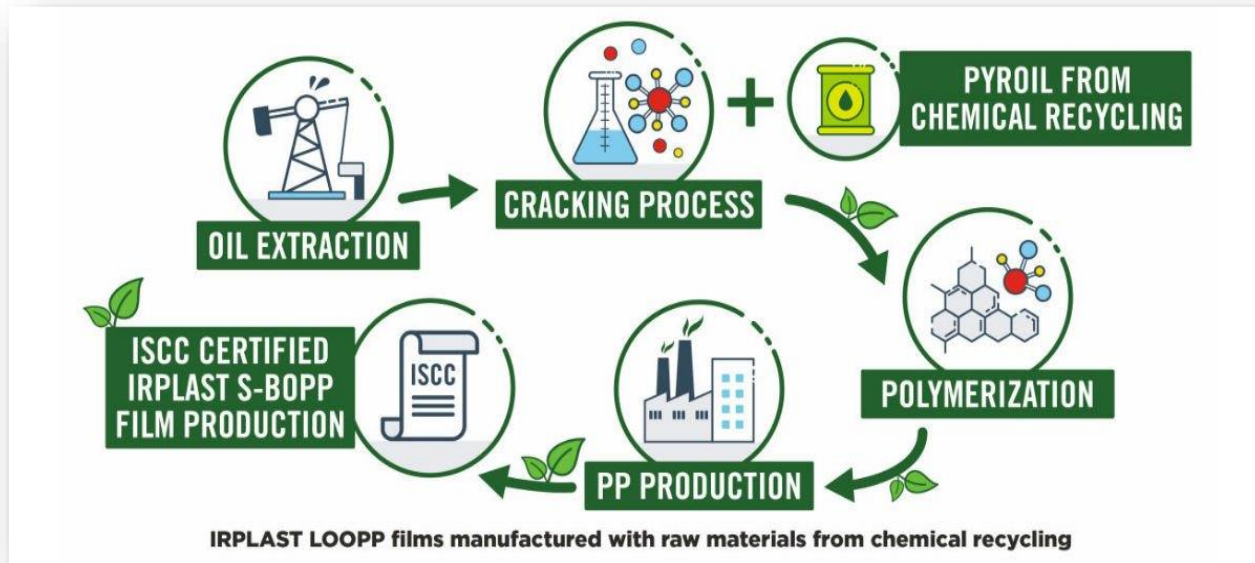
- UCO refers to oil which has been used to cook food for human consumption
- UCO are high value outlet for restaurant or food industry oils that no longer meet the quality standards for human consumption
- It's promoted the collection of UCO instead of discarding them with wastewater.



- The waste vegetable oils are not of animal origin and do not compete with the food chain
- Resins are made with residual by-products of vegetal origin which avoid specific agricultural land use (no-ILUC) and animal derivatives.

LOOPP FILMS – RECYCLED FOOD CONTACT BOPP FILM

LOOPP films are realized with raw materials coming from the chemical recycling process of PCW-



The mixed post-consumer plastic waste is collected by municipalities from household collection schemes in the EU

Using these films allows IRPLAST and our Customers to participate in the circular economy, and to kick-start the vital scale-up of the chemical recycling industry.

From producer to customer, from customer to producer. Circular. LOOPP.

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