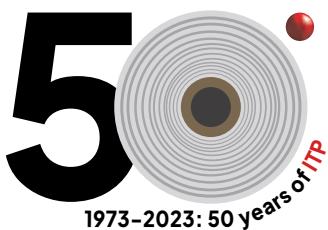




INNOVATIVE PACKAGING SOLUTIONS

# Triflex

## Triple Bubble<sup>®</sup> Films



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

# ITP: 50 YEARS OF TRANSPARENT DEVELOPMENT

ITP - Industria Termoplastica Pavese Spa - is a **family business** founded in 1972, operating in the **plastics industry**, producing **polyolefin films** for food and industrial packaging and surface protection.

## STRUCTURE AND CAPACITY

- Production site: Bosnasco, Pavia
- Surface area: 100,000 m<sup>2</sup>
- Employees: 250
- Production capacity: > 40,000 tons/year
- Export: > 45%



## INNOVATION AND INVESTMENTS

- New factory equipped with innovative technology for extrusion of bi-oriented barrier films
- Collaborations with universities and scientific institutions
- Focus on high-performance, sustainable, reduced-thickness, packaging solutions designed to extend food shelf life



## CERTIFICATIONS

- Product: OK Compost, Cyclos HTP, Second Life Plastic, Halal, ISCC Plus
- Process: BRC Mod. 10, ISO 9001, ISO 45001, ISO 14001
- ESG acknowledgments and ratings: ECOVADIS, PRS Green Label, Operation Clean Sweep



## ETHICS & SUSTAINABILITY

- Organizational Model pursuant to Legislative Decree 231/2001
- Ethical Code introduced in 2018
- Sustainability Report since 2021
- Benefit Corporation in 2022
- First LCA studies in 2023



## PRODUCT LINES

- Shrink films for beverage and tissue
- Industrial films for surface protection
- Coextruded flexible films for lamination and thermal-lamination for food applications (peelable, sealable, barrier, resealable, antifog, anti-UV)
- Films for frozen foods, compostable and peelable included
- ClearSkinPack<sup>®</sup> vacuum skin film
- Triflex line: bi-oriented high-barrier coextruded films, ultra thin and light
- Films for medical and pharma packaging



## RESEARCH & DEVELOPMENT

- 800 m<sup>2</sup> laboratory
- Team of technicians, chemists and engineers
- 16 patents filed
- Pilot line for testing new materials and formulations
- Ability to customize film performance through extrusion expertise



## TRAINING

- Academy for onboarding of new employees
- Ongoing health and safety training programs
- Culture and Quality Plan for employee training on ITP values, strategies, sustainability, processes and products
- Projects for the placement of female resources in the production department



## ITP at a glance

### PRODUCT LINES

#### FILMS FOR FOOD PACKAGING

skin films, bottom films for thermoforming shrink bags, films for frozen foods, top lid tray films, films for cereals and rice, films for pouches, films for lamination, liner films for thermal-lamination



#### FILMS FOR SECONDARY PACKAGING

shrink films for beverage and pallets, films for tissue primary and secondary packaging

#### FILMS FOR PHARMA & MEDICAL PACKAGING

liner films for blisters and suppository, films for cold form blisters, LDPE substrate as an alternative to PVC for blisters, liner films for stick and sachets, peelable films on Tyvek<sup>®</sup>



#### FILMS FOR INDUSTRIAL APPLICATIONS

masking films for surface protection, industrial skin films, films for labels and coating



### DEPARTMENTS



extrusion lines (up to 7 layers)



Triple Bubble<sup>®</sup> extrusion line



flexographic printing facilities (up to 10 colours)



rewinders and cleanroom



regeneration plants



R&D laboratory with extrusion pilot line

# Triflex

## Triple Bubble® films



Triflex is ITP's range of bi-oriented barrier monofilms, produced with advanced Triple Bubble® technology.

Developed through extensive R&D, Triflex films combine high mechanical performance, controlled barrier properties, and significant thickness reduction, offering a technologically advanced alternative to conventional laminated structures while enhancing efficiency and sustainability in food packaging.

ITP offers **T-ShrinkTube**, tubular films for shrink bags produced with Triple Bubble® technology, delivering bi-oriented structures with high mechanical strength, controlled barrier levels, and optimized shrink behavior. These films are ideal for applications where durability, tight shrink, and material efficiency are essential.

For thermoforming applications, Triflex **T-ShrinkPack** solutions provide controlled and uniform shrink performance, high puncture resistance, strong mechanical stability, and excellent deep-drawing capability, ensuring consistent pack integrity, reliable protection throughout logistics, and an enhanced visual appearance.

Within the range, Triflex **T-Lid** is a high-barrier top-lidding solution designed for demanding food applications, offering excellent stiffness, toughness, transparency, and seal integrity. In addition to the standard version, T-Lid is now also **available in a recyclable formulation**, further reducing material complexity while supporting sustainable packaging strategies.

Together, Triflex film solutions represent a new generation of high-performance bi-oriented monofilms, combining efficiency, sustainability, and premium performance to meet the evolving requirements of the food packaging market.



## COEXTRUDED MONOFILMS

Triflex T-ShrinkTube tubular films for shrink bags deliver optimized shrink performance, controlled barrier properties, and reduced material usage, while Triflex T-ShrinkPack for thermoforming and shrink applications ensures controlled shrink behavior, high puncture resistance, and strong pack integrity. Together, they extend the Triflex concept to shrink packaging, combining performance, efficiency, and sustainability, being ready-to-use products.

	 T-ShrinkTube	 T-ShrinkPack
<b>PRODUCT TYPE</b>	Tubular film for shrink bags	Thermoformable and shrinkable film for bottom and top packaging
 <b>MATERIALS</b>	PA/EVOH/PE	PA/EVOH/PE
 <b>LAMINATION TYPE</b>	No lamination: it is a coextruded monofilm. Ready to use packaging.	No lamination: it is a coextruded monofilm. Ready to use packaging.
 <b>BARRIER</b>	Available with high, medium and low barrier.	High
 <b>HEATING CONDITIONS</b>	Microwaveable, not ovenable	Microwaveable, not ovenable
 <b>MECHANICAL PROPERTIES</b>	Excellent, thanks to bi-orientation	Excellent, thanks to bi-orientation
 <b>DRAWING PERFORMANCE</b>	n.a.	Very high
 <b>PUNCTURE RESISTANCE</b>	Very high	Very high
 <b>OPTICAL PROPERTIES</b>	High gloss, excellent transparency	High gloss, excellent transparency
 <b>PRINTING</b>	Available	Available

# TOP LIDDING COEXTRUDED MONOFILMS

ITP films are developed through continuous R&D and innovation to deliver high-performance food packaging solutions.

The Triflex range, introduced in 2023, is an advanced coextruded bi-oriented barrier monofilm produced in Italy, eliminating the need for lamination while offering over 30% thickness reduction, excellent brilliance, and high functional performance.

Triflex T-Lid is a high-barrier peelable or sealing top-lidding film made from PE, PA, and EVOH, combining stiffness, toughness, transparency, and antifog properties. Awarded the Ecopack CONAI 2024, it reduces raw material use and CO<sub>2</sub> emissions, as confirmed by LCA studies.

T-Lid is Halal certified, ensuring safety and quality while respecting cultural and religious values worldwide.

# RECOMMENDED APPLICATIONS

cold cuts and sausages

meat and poultry

fish and seafood

cheese and dairy products

fresh pasta and ready-to-eat meals

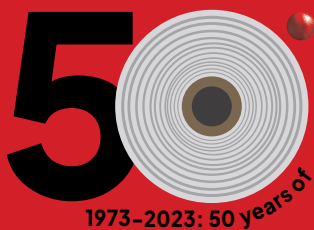
T-Lid	SEALING ON MONO PP	SEALING ON PE LINER ON PAPER	RECYCLABLE
<b>MATERIALS</b>	PA/EVOH/PE	PA/EVOH/PE	PA/EVOH/PE
<b>LAMINATION TYPE</b>	No lamination: it is a coextruded monofilm. Ready to use packaging.	No lamination: it is a coextruded monofilm. Ready to use packaging.	No lamination: it is a coextruded monofilm. Ready to use packaging.
<b>BARRIER</b>	High and very high	High and very high	High and very high
<b>ANTIFOG</b>	Yes	Yes	Yes
<b>HEATING CONDITIONS</b>	Microwaveable, not ovenable	Microwaveable, not ovenable	Microwaveable, not ovenable
<b>OPTICAL PROPERTIES</b>	High gloss, excellent transparency	High gloss, excellent transparency	High gloss, excellent transparency
<b>PRINTING</b>	Not recommended	Not recommended	Not recommended
<b>HALAL CERTIFICATION</b>	Yes	Yes	Scheduled for late 2026



INNOVATIVE PACKAGING SOLUTIONS



INTEGRATED.  
CERTIFIED.  
FROM GRANULE  
TO PRINTED FILM.



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