

Biaxially Oriented Polypropylene Films and Labels

Tobacco Packaging



Leader in Films

Innovia Films has been supplying overwrap films to the tobacco industry for over 70 years. We are the leading global supplier of Biaxially Oriented Polypropylene (BOPP) film into the tobacco market.

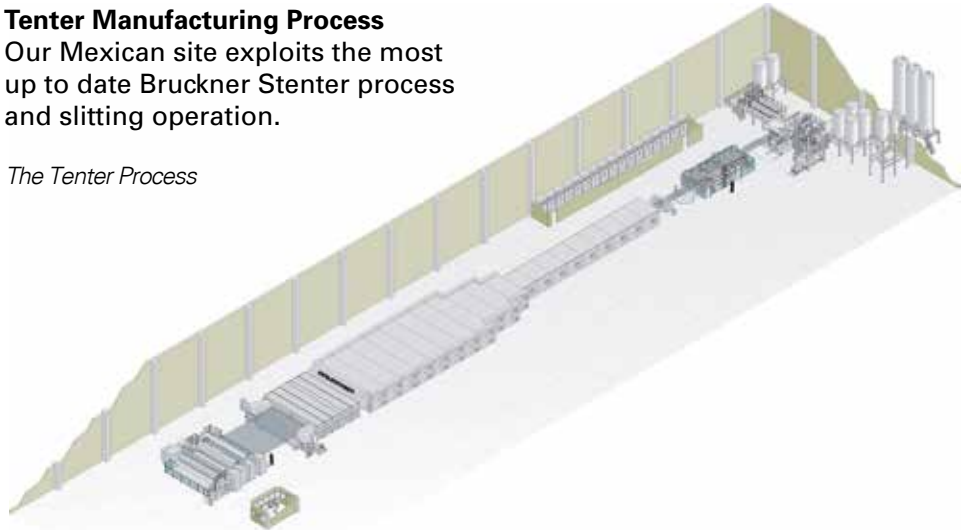
Innovia Films was the first to introduce BOPP shrink film into the tobacco industry. Even today its shrink films set the bench mark for overwrap quality. We continue to evolve our comprehensive range of films and labels for the tobacco industry.

We have a global manufacturing base with plants in the Americas, Asia Pacific and European regions, taking advantage of both the unique 'bubble' manufacturing process and Tenter method of producing film.

Tenter Manufacturing Process

Our Mexican site exploits the most up to date Bruckner Stenter process and slitting operation.

The Tenter Process



BOPP Films for Tobacco Overwrap

| Special Features | Benefits |
|--|---|
| Differential slip on each side of the film | Enhanced processing while giving a tight wrap |
| Moisture and chemical resistance | Retention of tobacco and pack product quality |
| Thin films capability | Less packaging waste, potential lower cost |
| Strong tearing seal | Tamper evidence |
| High moisture and flavour barrier | Extended shelf life |
| Recyclable | Uncoated films recyclable with polyolefin materials |

Printable Films

| Grade | Type | Gravure printing | Flexographic printing | Readily printable | Compatible NC/PU & PVB ink systems |
|--------|----------|------------------|-----------------------|-------------------|------------------------------------|
| *ZSD | Shrink | ■ | ■ | ■ | ■ |
| GLP | Shrink | ■ | ■ | ■ | ■ |
| MTP | Standard | ■ | ■ | ■ | ■ |
| RC,SRC | Coated | ■ | ■ | ■ | ■ |

*Tenter film

'Bubble' Manufacturing Process

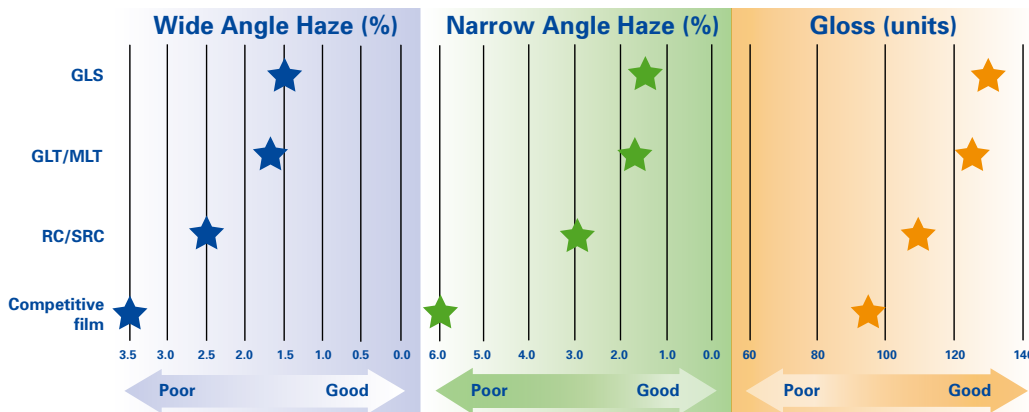
We use a unique 'bubble' manufacturing process which produces films with balanced orientation and properties.

Only the 'bubble' process provides:

- Superior clarity
- Exceptional gloss
- Outstanding mechanical and balanced shrink properties
- High stiffness and low elongation in the machine direction (MD) for advantages during conversion



Optical Standards

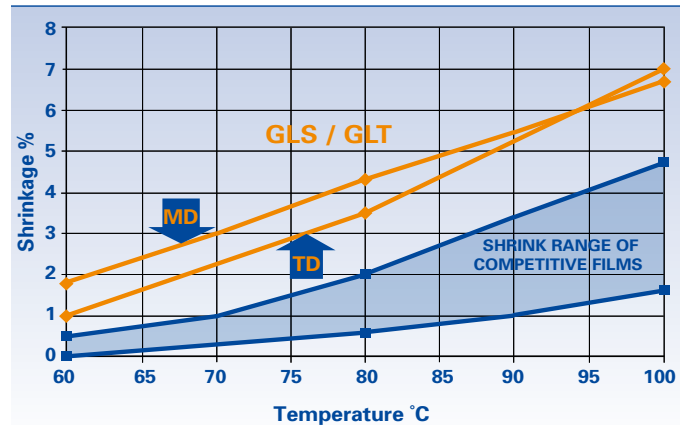


Excellent optics is essential to reinforce strong brand image. Innovia Films' shrink films lead the market for high gloss, clarity and pack appeal.

Thermal Shrinkage

In order to obtain a tight wrapped pack on the shelf, the film needs to have both controlled and balanced shrinkage as well as good low temperature shrinkage. These are inherent characteristics of the Innovia Films 'bubble' process.

The initial shrinkage provides a tight wrap. The residual shrink in the film allows it to tighten on the pack after wrapping when a range of climate and storage conditions can be experienced.

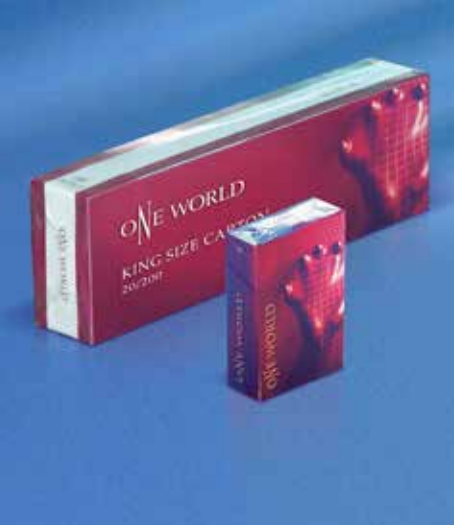





Clear Collation Films

| Grade | Coated | Shrink | Uncoated | Easy Opening Snap Wrap ...Z01 Series |
|--------------|--------|--------|----------|--------------------------------------|
| RC20, 25, 30 | ■ | | | ■ |
| SRC24 | ■ | ■ | | ■ |
| NC23/25 | | | ■ | ■ |
| SNC23/25 | | ■ | ■ | ■ |

The use of clear collation has increased in recent years due to its ability to reduce costs and the complexities of multiple health warnings. Innovia Films has led the way by developing a family of films to meet the requirements of this application.

Application Checklist

| Pack Wrap and Carton Overwrap | Film Type | Film Grade | Why? |
|--|------------------------------|-----------------------------------|--|
|  | High Shrink Tightening Films | GLT18/20/25 GLS20/25 | High levels of controlled and balanced shrinkage for optimum wrap tightness. GLT has enhanced machine performance and meets global vending blocking needs. Superior optical clarity and gloss. |
| | | *ZXA 20,25 | High Barrier and shrink. |
| | | XLT16 | Excellent moisture/flavour barrier and machine performance. Reduces packaging waste. |
| | Medium Shrink Film | *ZEA18,20 | Medium Shrink Performance. |
| | | SLT20 | Intermediate shrink performance. Superior optical clarity and gloss. |
| | Non Shrink Film | MLT20 | High speed films. Suitable for soft and hard packs. Non shrink. Meets global vending blocking requirements. |
| *ZNA 20 | | Suitable for hard and soft packs. | |
| Clear Collation | Film Type | Film Grade | Why? |
|  | Acrylic Coated | RC20/25/30 | Incompatible with co-extruded OPP films used on unit wrap. Superior barrier to water, flavours and aromas. Excellent optical appearance. Wide seal range. Printable both sides. |
| | Shrink Acrylic Coated | SRC24 | Balanced and controlled shrink to provide tight wrap. Other properties similar to RC. Printable both sides. |
| | Uncoated | NC23/25 | Co-extruded film with wide seal coats. Lower cost. |
| | Shrink Uncoated | SNC23/25 | Shrink co-extruded film with wide seal coats. Lower cost. |
| | Snap Wrap | ...Z01 | Perforated film - all collation grades e.g. SNCZ01. Easy removal of packs. Two packs can be snapped off at once. Eliminates need for tear tape. |
| Inner Liner Lamination Films | Film Type | Film Grade | Why? |
|  | Uncoated | RLC20/25/38 | Heat-sealable on both sides, one side with low heat-seal threshold. One side treated for printing and laminating. |
| | Acrylic Coated | RC20/25/40 | Low sealing threshold and broad sealing range. Suitable for printing and laminating on both sides. |
| | | FFC25 | Exceptional wide seal range on one side and excellent printability on acrylic side. |
| | | ILC20 | Wide sealing range, outer surface ideal for flow wrapping IL machines. One side treated for printing and laminating. |
| Printable | Film Type | Film Grade | Why? |
|  | Shrink | *ZSD20 | Printable shrink tightening film. |
| | | GLP20/25 | Printable version of shrink film GLT. |
| | Non Shrink | MTP20 | Printable, non shrink film. |
| | Acrylic Coated | RC20/25/30 | Incompatible with co-extruded OPP films used on unit wrap. Printable both sides. |
| Shrink Acrylic Coated | | SRC24 | Balanced and controlled shrink to provide tight wrap. Other properties similar to RC. Printable both sides. |

*Tenter films

Labels for Reclosable Inner Liner

CCL's unique security and decorative tobacco labels, for both manual and automatic inner liner packs aid:

- Easier opening and re-closing for a longer pack life
- Preserve tobacco freshness
- Marketing support for brand communication



Innovation

Innovia Films R&D facility was built to support its belief in new product development and to provide solutions for its customers.

It brings together a wide range of R&D disciplines and has extensive facilities covering material, chemical and physical sciences.

To meet the challenges from the tobacco industry, Innovia Films is focussing its research and development on four main areas:

- Cost reduction
- Brand enhancement
- Product assurance
- Sustainability



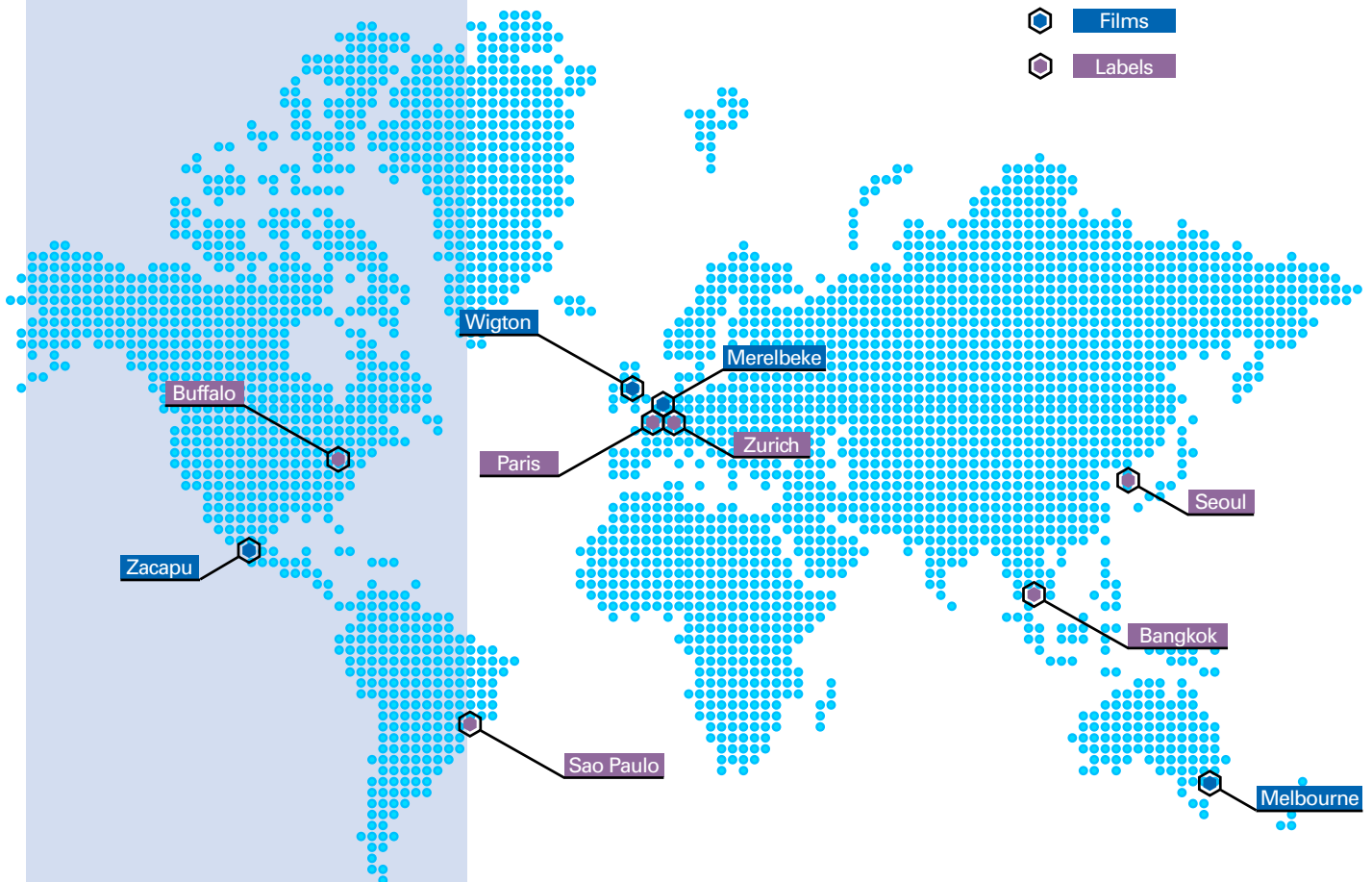
How to find out more about our films

Global Support

Innovia Films recognises that the tobacco market is one of the most technically and logistically demanding in the packaging industry. We aim to continue to provide the quality, service and products required by the industry through:

- a strong global and local tobacco sales, customer service and technical service support team
- a cross functional tobacco team - sales, marketing, technical support, production, R&D and logistics
- continuous improvement culture to provide the highest levels of product quality
- a logistics team with expertise to supply to all parts of the globe
- close relationships and strategic alignments with its customers
- innovative new product solutions for all components of the pack

Global Reach CCL Tobacco Division



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Regional Offices:

Europe (UK) Tel +44 16973 42281

Americas (USA) Tel +1 877 822 3456

Asia-Pacific (Aus) Tel +61 3 9303 0600

www.innoviafilms.com

email: tobacco@innoviafilms.com

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