

# Multilayer Film

Upgrade for existing 3-layer BOPP lines

## Benefits

- Enter high-margin markets for specialty film with a reasonably modest investment
- Fast amortization due to increased margin quality & higher line output
- Highest flexibility: produce 3- and 5-/ 7-layer film alternately with the modified equipment
- Cost advantages: expensive additives are mainly applied in the thinner intermediate layers and in smaller quantities
- Less maintenance in TDO: reduction of condensate production



# Multilayer Film

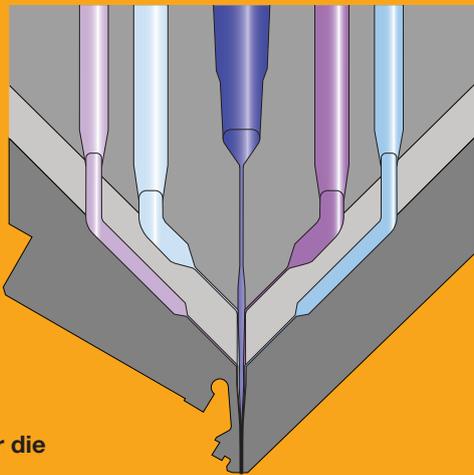
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## Film types

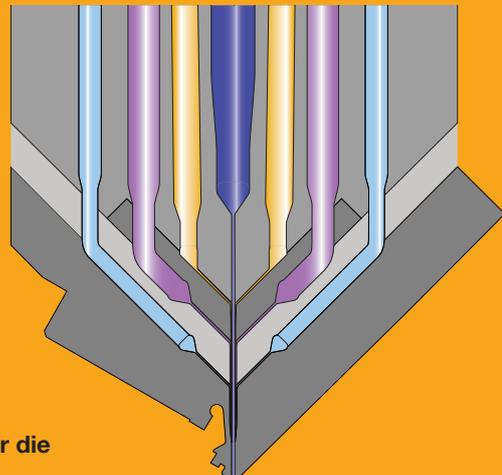
- Ultra-high-barrier film (replacement for aluminum foil)
- Self adhesive labels (matt or glossy)
- Wrap around labels
- High speed form-fill-seal (HFFS, VFFS)
- In-mould labels (Injection)
- In-mould labels (thermo forming)
- Film for lamination to paper, PE, or other films
- Overwrapping
- Pressure sensitive labels

## Film properties

- Excellent barrier against oxygen (OTR) and water vapor (WVTR)
- Special outer layers with high surface energy enable exceptionally tight metallization providing uniform protection
- Improved optical, transparent, gloss and opaque properties



5-layer die



7-layer die

## Technical requirements

- Gravimetric dosing for more exact flow of material
- Additional co-extrusion systems (extruders, filters, melt pipes)
- New multi-layer die with die lip adjustment
- New multi-layer die adapter
- Modified or new die support frame
- Modified electrical equipment, drives and software
- Due to higher output, an analysis of all other components, e.g. for limitations in thermal capacities and speed, will be done by Brückner Servtec

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