

# HIGH BARRIER CAST PP POUCH

PP based lamination film with barrier characteristics and compatible with mechanical recycling



## Why High Barrier Cast PP Pouch?

The high barrier cast PP pouch serves as our enhanced demonstrator for sustainable packaging solutions, designed for mechanical recycling.

Both base films are mainly consisting of polypropylene and made on our FILMEX™ cast film machine. The use of a minimized content of EVOH ensures that properties for long shelf life packaging applications are met, as well as compatibility for mechanical recycling is given. A supplementary inorganic coating of the base film improves the barrier properties. For bonding the films a tailored modular performance adhesive is used without adding noteworthy amounts of extraneous material.

A major challenge is the incorporation and distribution of the EVOH within the polyolefinic structure. This was mastered by means of inhouse development for process know how and thanks to a machine design that provides melt with excellent quality. The achieved contact transparency reflects the very good result.

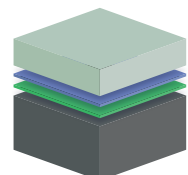
## Your advantages

- ✓ Sustainable design for compatibility with mechanical recycling
- ✓ High barrier properties for improved shelf life
- ✓ Excellent optical and mechanical properties

## Recipe

### Full PP Laminate

Layer	Thickness	Functions
CPP film (counter printed)	30 µm	Printability and thermal stability
2K-PUR adhesive	2 gsm	Bonding
SiOx or AlOx (HAD) coating	AlOx -10nm / SiOx -30nm	Oxygen and water barrier
CPP EVOH Barrier Film	60 µm	Barrier and sealing properties



## Our partners



Learn more about **HIGH BARRIER CAST PP POUCH**:  
[www.wh.group/int/en/sustainability/circular\\_economy/recyclable\\_solutions/all\\_pp\\_pouch](http://www.wh.group/int/en/sustainability/circular_economy/recyclable_solutions/all_pp_pouch)

Find more information about **FILMEX™ BARRIER & CPP** on the back of the page.



# FILMEX<sup>™</sup> BARRIER & CPP

Highest production efficiency with most consistent film quality in the global industry



## Why FILMEX<sup>™</sup> Barrier & CPP?

The FILMEX<sup>™</sup> is based on a modular concept that enables optimal user- and product-specific configuration options, thus offering the greatest possible flexibility in product design. The development of the FILMEX<sup>™</sup> was driven by productivity, flexibility, automation and sustainability. Every component is designed to deliver consistent, superior quality film at highest outputs. Shortest startup and changeover times reduce the use of raw materials and the amount of waste significantly while maintaining excellent film quality.

- FILMEX<sup>™</sup> is individually customizable to your specific customer requirements as a result of modular concept
- Die Control Wizard for faster product changeovers
- Unique screw design provides excellent melt quality
- FILMATIC<sup>™</sup> TC winding technology ensures superior reel quality

## Your advantages

- ✓ Most consistent high quality film for optimum performance in the downstream process
- ✓ Highest production efficiency through full integrated automation
- ✓ Machine designed for maximum product flexibility

### Technical Data FILMEX<sup>™</sup> for Barrier & CPP

Film structure	3 – 11 Layers
Net film width	2 – 4 m
Thickness gauge	15 – 400 µm
Net output	up to 2,500 kg/h
Line speed	up to 350 m/min



Learn more about **FILMEX<sup>™</sup> Barrier & CPP:**  
[www.wh.group/int/en/our\\_products/extrusion/cast\\_film\\_lines/](http://www.wh.group/int/en/our_products/extrusion/cast_film_lines/)

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