

# RECYCLABLE PET FOOD BAG

Made with a co-extruded EVOH Barrier Layer



## Why a Recyclable Pet Food Bag?

With our **EVOH co-extruded** pet food bag, we are demonstrating a proven circular economy film concept. This pet food bag is designed for recyclability, highest efficiency and packaging performance.

- Stretched, wide and stiff MDO PE-film
- Printed on HELIOSTAR™ S for excellent print quality
- Laminated to a PE-based sealing film containing a thin layer of EVOH

## Our partners



## Your advantages

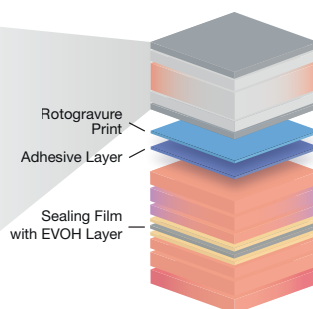
- ✓ Excellent production efficiency of **MDO PE-film** produced on a 3200 mm VAREX™ with inline MDO
- ✓ **Sealing film with EVOH** layer provides an oxygen barrier to the bag
- ✓ Proven recyclability
- ✓ Fast bag making speeds
- ✓ Optimized packaging concept for the complete value chain

## Recipes

### MDO PE-Film

Amount	Resins	Layer thickness	Functions
70%	HDPE Elite	12 µm	Thermal resistance
30%	HDPE Elite AT		
100%	MDPE Elite	26 µm	Mechanical properties
70%	MDPE Elite	52 µm	Mechanical properties
30%	LLDPE Elite		
100%	MDPE Elite	26 µm	Mechanical properties
70%	HDPE Elite	12 µm	Thermal resistance
30%	HDPE Elite AT		

The primary film thickness is 128 µm and stretched down by the MDO unit to a secondary film of 25 µm



### Sealing Film in 145 µm WITH EVOH

Amount	Resins	Layer thickness	Functions
100%	LLDPE Innate ST	25 µm	Mechanical properties
79%	LLDPE Innate ST	25 µm	Mechanical properties
21%	MB Masterbatch White		Color
78%	LLDPE Innate ST	15 µm	Mechanical properties
22%	MB Masterbatch White		Color
100%	Tie Tie	5 µm	Bonding
100%	EVOH EVOH	5 µm	Oxygen barrier
100%	Tie Tie	5 µm	Bonding
100%	LLDPE Innate ST	15 µm	Mechanical properties
100%	LLDPE Innate ST	25 µm	Mechanical properties
60%	POP Affinity Innate	25 µm	Sealing
40%	LLDPE Innate		



Learn more about **RECYCLABLE PET FOOD BAG:**  
[www.wh.group/int/en/sustainability/circular\\_economy/recyclable\\_solutions/cat\\_food\\_bag](http://www.wh.group/int/en/sustainability/circular_economy/recyclable_solutions/cat_food_bag)

Find more information about **VAREX™ with MDO** on the back of the page.



# VAREX<sup>™</sup> WITH MDO

The Benchmark in Blown Film Extrusion



## Why VAREX<sup>™</sup> with MDO?

The production of recyclable MDO PE-film requires best-in-class extrusion equipment and deep product and process know-how. W&H machinery and services allow you to benefit from our expertise in this growing field. Our machine products in extrusion and printing enable you to become a leader in sustainable film production.

## MDO

Our MDO PE-film is stretched in order to improve its mechanical and optical properties. W&H MDO technology enables our customers to optimize all process parameters.

- All MDO roller temperatures and speeds are individually controllable
- Adjustable stretching gap during production for optimized film properties
- Precise control of stretching process via web tension or stretching speed
- Achieve an excellent film flatness despite the stiff nature of the film

## Your advantages

- ✓ Production efficiency with 3200 mm VAREX<sup>™</sup> with inline MDO and highest output
- ✓ OPTIFIL P MDO automation to reduce edge trims
- ✓ Extrusion of large material variety thanks to robust and flexible design of our extruders and dies
- ✓ All important machine parts (e.g. extruders, MDO, winder) are adjustable on our PROCONTROL TS panel for a single point of operation
- ✓ Printability proven on HELIOSTAR<sup>™</sup> S rotogravure printing press
- ✓ Energy-efficient production



Learn more about **VAREX<sup>™</sup> with MDO**:  
[www.wh.group/int/en/our\\_products/extrusion/  
stretching\\_unit](http://www.wh.group/int/en/our_products/extrusion/stretching_unit)

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