

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

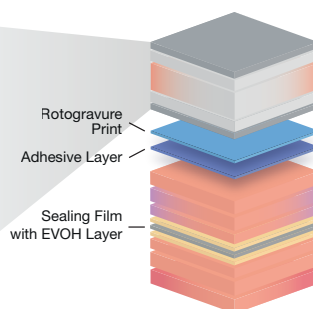
- ✓ Excellent production efficiency of **MDO PE-film** produced on a 3200 mm VAREX™ with inline MDO
- ✓ **Sealing film with EVOH** layer provides an oxygen barrier to the bag
- ✓ Proven recyclability
- ✓ Fast bag making speeds
- ✓ Optimized packaging concept for the complete value chain

Recipes

MDO PE-Film

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

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% 21%	LLDPE Innate ST MB Masterbatch White	25 µm	Mechanical properties Color
78% 22%	LLDPE Innate ST MB Masterbatch White	15 µm	Mechanical properties 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% 40%	POP Affinity LLDPE Innate	25 µm	Sealing



Learn more about **RECYCLABLE PET FOOD BAG:**
www.wh.group/int/en/sustainability/circular_economy/recyclable_solutions/cat_food_bag

Find more information about **HELIOSTAR™** on the back of the page.



HELIOSTAR[™]

Ready For A Sustainable Future



The consumer market is expecting sustainable packaging solutions with gravure printing quality, whereas the majority of existing gravure presses are not capable of processing PE material or generate a high amount of waste. W&H has been working with various market leading partners to further develop recycling material technology contributing to a circular economy.

Why HELIOSTAR[™]?

• Benchmark for register accuracy

The HELIOCONTROL offers precise register accuracy even for low contrast inks and varnishes. In combination with SUPERGRIP rollers most accurate register can be achieved even with challenging substrates such as PE and especially the environmental-friendly MDO-PE as PET-replacement for standup pouches.

• Superior print quality

The HELIOSTAR[™] is equipped with individually driven inking rollers for perfect inking at all speeds. Powerful dryers guarantee sufficient drying capacity and lowest residual solvents even at maximum output.

• Job change made easy

Slide in COMBICART systems allow an easy exchange of cylinders and/or inking systems to reduce change over times. The EASY Sync function with one-touch-control automates the pre-register setting.

Your advantages

- ✓ Superior print quality at highest speeds up to 600 m/min
- ✓ Fast and operator friendly changeovers
- ✓ Cutting-edge HELIOCONTROL register controls even for sensitive substrates like PE
- ✓ Fully-integrated inspection- and quality-control-systems
- ✓ Possibility to print with Cr3 cylinders as alternative to Cr6

Technical Data

	HELIOSTAR [™] S	HELIOSTAR [™] A
Printing decks	max. 12	max. 12
Printing width	800 – 1600 mm (31.5" – 63")	1000 – 1300 mm (39.5" – 51.25")
Repeat range	450 – 920 mm (17.75" – 36.25")	450 – 920 mm (17.75" – 36.25")
Press speed	500/600 m/min (1640/1960 ft/min)	400/500 m/min (1300/1640 ft/min)



Learn more about **HELIOSTAR[™]**:
www.wh.group/int/en/our_products/printing/gravure_printing_presses

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