

RECYCLABLE PET FOOD BAG

Made with a Functional Barrier Coating during the Printing Process



Why a Recyclable Pet Food Bag?

With our **barrier coated** pet food bag, we are demonstrating a proven circular economy film concept. This pet food bag is designed for recyclability, the highest efficiency and packaging performance.

- Stretched, wide and stiff MDO PE-film
- MDO PE-film was coated with PVOH barrier on our MIRAFLEX™ printing machine with inliner technology
- Laminated onto a PE sealing film

Our partners



Your advantages

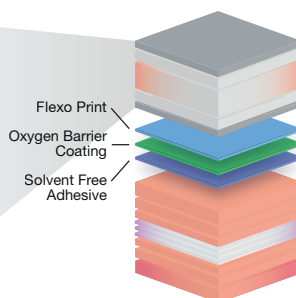
- ✓ Add barrier functionality to MDO PE-film with printed **PVOH barrier**
- ✓ Excellent production efficiency of **MDO PE-film** produced on 3200 mm VAREX™ with inline MDO
- ✓ Proven recyclability
- ✓ Fastest bag making speeds
- ✓ Optimized packaging concept for the complete value chain

Recipes

MDO PE-Film

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

Amount	Resins	Layer thickness	Functions
100%	LLDPE	Innate ST	25 µm Mechanical properties
100%	LLDPE	Innate ST	20 µm Mechanical properties
100%	LLDPE	Innate ST	13 µm Mechanical properties
70% 30%	MDPE MB	Elite Masterbatch White	10 µm Mechanical properties Color
70% 30%	MDPE MB	Elite Masterbatch White	9 µm Mechanical properties Color
70% 30%	MDPE MB	Elite Masterbatch White	10 µm Mechanical properties Color
100%	LLDPE	Innate ST	13 µm Mechanical properties
100%	LLDPE	Innate ST	20 µm Mechanical properties
60% 40%	POP LLDPE	Affinity Innate	25 µm Sealing



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

Find more information about
MIRAFLEX™ with INLINER
 on the back of the page.



MIRAFLEX[®] WITH INLINER

Sustainable Printing made easy – Printed Barrier Solutions



Freshness and quality are important, especially for packaged food products. To achieve these, the barrier properties of the packaging used are crucial. W&H has been working with various market leading partners to further develop barrier coating technology for packaging products as a sustainable and flexible alternative to multi-layer packaging material.

Why MIRAFLEX[®]?

- **Best print quality**
The robust print deck design, drying capabilities and web handling are the base for the superior print quality of the MIRAFLEX[®].
- **Efficient inline processes**
Choose between flexo and gravure inline solutions with high-capacity drying systems, especially for water-based coatings.
- **Fast changeovers**
Integrated EASY modules for impression and register setting allow quick, **waste-minimizing** set-up and job changes. TURBOCLEAN with diaphragm or electric pumps guarantees exceptional cleaning results and **most efficient ink** and **solvent usage**. W&H's approach on **sustainable flexo production**.

Your advantages

- ✓ Superior print quality with high throughput and productivity
- ✓ Water-based flexo technology available
- ✓ Fast and easy adaption of barrier coatings (type, application weight, ...)
- ✓ Flexibility to apply PVOH to a wide range of materials (MDO-PE, OPP, paper, ...)
- ✓ Competence in inline applications with flexo and gravure solutions

Technical Data

	MIRAFLEX [®] M	MIRAFLEX [®] L
Color decks	8 or 10	8 or 10
Printing width	820 – 1450 mm (32.25" – 57")	1000 – 1450 mm (39.3" – 57")
Repeat length	max. 800 mm (31.5")	max. 1130 mm (44.5")
Press speed	400/500/600 m/min. (1300/1640/1960 ft/min.)	400/500/600 m/min. (1300/1640/1960 ft/min.)



Learn more about MIRAFLEX[®] with INLINER:
www.wh.group/int/en/our_products/printing/flexo_printing_presses/miraflex_ii

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