

HIGH BARRIER CAST MDO-PP POUCH

MDO-PP print film laminate with boosted EVOH barrier



Why high barrier Cast MDO-PP pouch?

Today's market challenge in cast film is to coextrude thin films with high barrier properties, excellent optics and non-polyolefin content below 5% in one single production step. Our newly developed High Barrier Cast MDO-PP Pouch demonstrates how modern packaging solutions can combine high barrier and design for recycling.

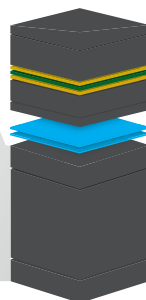
The pouch is based on two polypropylene films produced on our FILMEX™ cast film line. By using a minimized amount of EVOH and applying MDO stretching, we significantly enhance the barrier performance – ideal for long shelf-life packaging applications. At the same time, we meet recyclability requirements: The non-polyolefin content remains significantly below 5% in the laminate. The result: a packaging structure with excellent clarity, enabling attractive product presentation despite the presence of EVOH.

Your advantages

-  Superior Barrier Performance: MDO-enhanced structure with minimum EVOH content enables OTR <1
-  Tailored mechanical strength, low residual shrinkage
-  Outstanding heat-resistance supports high-speed converting in pouch production
-  W&H process and recipe know-how for optimized film transparency and product display

Sealing film

Amount	Resins	Layer Thickness	Functions
100%	PP Block and Random PP's	10.5 µm	Adhesive lamination, Mechanical Properties
100%	PP Block CoPP	49 µm	Mechanical Properties Body
100%	PP Random PP	10.5 µm	Sealing
Total 70 µm			
Adhesive	Flextra Type	High Performance Recycle Ready Adhesive	



MDO print film with EVOH

Amount	Resins	Layer Thickness	Functions
100%	PP High Crystalline HomoPP	22.5 µm	Thermal resistance
100%	PP Block CoPP	37.5 µm	Mechanical Properties
100%	TIE Admer type	11.7 µm	Bonding
100%	EVOH Soarnol type	9 µm	Oxygen Barrier
100%	TIE Admer type	11.7 µm	Bonding
100%	PP Block CoPP	37.5 µm	Mechanical Properties
100%	PP Homo and Random CoPP	22.5 µm	Print, lamination and thermal resistance

Total 150 µm

The primary film thickness is 150 µm and stretched down 1:5 to a secondary film of 30 µm. EVOH-content in the full laminate <2 %

Our partners



FILMEX™ with MDO

For flexible, efficient and profitable
cast film production



Cast MDO for consistent high film quality of MDO-PE and MDO-PP

- ✓ Maximum flexibility through a powerful design that enables stretching of both CPE and CPP
- ✓ Optimal film properties, process stability and neck-in control thanks to automatically adjustable stretching gaps
- ✓ Gentle stretching, even with 100% inline fluff refeeding, enabled by a second stretching gap
- ✓ Precise shrinkage behavior control achieved via adjustable annealing roller settings
- ✓ Fastest time-to-good-profile and superior film profiles ensured through continuous, adaptive inline profile control