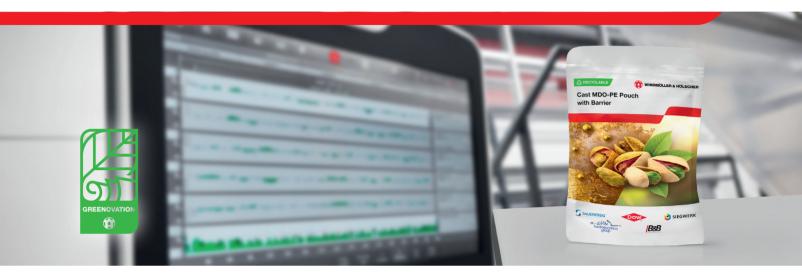


CAST MDO-PE POUCH WITH BARRIER

Barrier pouch designed for recycling and packaging performance



Why Cast MDO-PE pouch with barrier?

Driving the future of recyclable pouches with MDO-PE

Today's PET-based pouches deliver excellent stiffness, clarity, and processability - but their multi-material composition makes them difficult to recycle. As brand owners and consumers demand fully recyclable packaging, the industry needs a monomaterial solution that doesn't compromise performance.

Our answer: Cast MDO-PE technology.

By stretching polyethylene films in the machine direction (MDO), we precisely tailor the film's mechanical and optical properties, achieving stiffness and transparency comparable to PET. This enables high-speed processing, premium shelf appeal, and, most importantly, a true monomaterial design that fits seamlessly into existing PE recycling streams.

Your advantages

- MDO-PE design delivers PET-like stiffness and clarity while being 100% compatible with recycling streams
- Outstanding heat-resistance enables highspeed bag manufacturing
- Low haze down to 3% and high flatness ensure premium shelf appearance and precise downstream converting
- High-speed printing on HELIOSTAR II gravure press up to 500 m/min with excellent register accuracy

MDO-PE Printing Film

Amount	Resins	Layer Thickness	Functions		
100%	HDPE	14 µm	Printing, Lamination		
100%	HDPE	45.5 μm	Mechanical Properties		
100%	LDPE	21 µm	Tear Propagation		
100%	HDPE	45.5 μm	Mechanical Properties		
100%	HDPE	14 µm	Thermal Resistance		
Total 140 µm					
The primary film thickness is 140 μm and stretched down 1:5.6 to a secondary film of 25 μm .					
Adhesive			Solventless Recycle Ready Adhesive		



Sealing film

Amount	Resins	Layer Thickness	Functions
100%	LLPDE	5.6 µm	Printing, Lamination
100%	LLPDE	28 µm	Mechanical Properties
100%	TIE	4 µm	
100%	EVOH	4.8 µm	High barrier
100%	TIE	4 μm	
100%	LLPDE	20 µm	Mechanical Properties
100%	LLPDE	13.6 µm	Sealing
		Total 80 um	

Our partners













