

MDO (Machine Direction Orientation) is a post-extrusion process that encourages PE-PE Mono Material Structures for Circular Economy instead of PET-PE Multi Material Structures. The film is essentially stretched in machine direction several times to obtain the required features, which enhance characteristics and improve properties.

Applications

MDO PE film is ideal as a printable outer layer in laminations, especially when combined with low SIT PE films.

Allow direct ROTOGRAVURE & FLEXO printing and can be laminated with Bareks PE films to form fully PE-based recyclable packaging.

Product Features

- High transparency and gloss
- Excellent stiffness for better machinability
- Superior dimensional stability
- Made from 100% polyethylene
- Suitable replacement for PET or OPP films
- Easy printing with all major printing technologies

Bareks MDO Product Range

- Transparent MDO PE
- White MDO PE (custom color versions are available - upon request)
- Metallized MDO PE
- Matt MDO PE
- Twistable MDO PE
- MDO P (PE-based structure with PP contribution – upon request)
- Advanced Recycled Content MDO PE

Customizable Options

- Surface treatments
- Coating options
- Metallization

Technical Specifications

Production Line	W&H
Production Line Details	VAREX II Blown Film Line
Number of Layers	5 Layers
Maximum Layflat	2.800 mm
Maximum Film Width	Up to 2.400 mm
MDO PE Thickness Range	20 μ - 50 μ
Inner Diameter	76/152 mm (3"/6")
Corona Treatment	Inside/Outside/Both Sides



In accordance with the upcoming Packaging and Packaging Waste Regulation (PPWR), we are pleased to confirm our capability to produce PFAS NIA compliant PPA materials utilizing MDO-PE technology. These solutions are engineered to ensure your packaging remains fully compliant with evolving European standards.