



RECYCLABLE PP MONO-MATERIAL BARRIER & HEAT SEAL SOLUTION WITH 2-PLY HIGH PERFORMANCE OPP LAMINATE

Delivering high performance with PP-based laminates for VFFS formats

MONO-MATERIAL SOLUTION

- PRINT WEB:** BICOR™ 20MB400 – heat sealable OPP film
- BARRIER WEB:** METALLYTE™ 28UBWES – Ultra high barrier white cavitated enhanced sealant OPP film
- CONVERSION:** Hatzopoulos  **hatzopoulos**
FLEXIBLE PACKAGING EXCELLENCE SINCE 1931

PACKAGING MACHINERY

- SUPPLIER:** WOLF VERPACKUNG-SMASCHINEN GMBH
- FORMAT:** VFFS - pillow bag
- TYPE:** Model EPS II Snack System
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FAWEMA HDG WOLF

Features

- Conforms to GEN D4R guidelines
- Outstanding barrier to light, H₂O, gases, (WVTR 0.1, OTR 0.1), aromas and MO
- Enhanced seal performance - seal strength > 9N/15mm or 15N/25mm
- High quality look with lap seal
- Lower packaging weight than most 3-ply solutions (e.g. OPP/Met-PET/Cast PP)

Benefits

- Full compatibility for mechanical recycling PP
- Great barrier keeps product tasting & feeling fresh
- Provides outstanding protection for snacks and confectionery products with tight hermetic seals
- Robust VFFS performance for demanding Modified Atmospheric Packaging (MAP)
- White inside aspect for a clean “grease-free” look for salty snacks
- Maintain easy opening (easy-tear) compared to Cast PP or blown PE based laminates



Metallyte™ UBWES is a cavitated white opaque ultra high barrier (UHB) vacuum metallized film with high optical density delivering great moisture barrier (WVTR 0.1) and great oxygen barrier (OTR 0.1) in combination with a unique proprietary Enhanced Sealant (ES) technology (seal strength 9N/15mm)

An **OPP/UBWES two-ply** laminate is ideal for most VFFS applications in lap or fin seals for most demanding snack or confectionery applications requiring a recyclable PP mono-material solution and typically using MAP for longer shelf life.

Most demanding snacks and confectionery applications in VFFS formats usually resort to 3-ply non-mechanically recyclable laminates. They can be easily replaced with 2-ply high performance OPP laminates to deliver improved recyclability and conform to new CEN guidelines issued in 2026 to match PPWR expectations in Europe.

VFFS LAMINATES FOR SNACKS & CONFECTIONS	MECHANICALLY RECYCLABLE	UNIT WEIGHT (g/m ²)	WVTR 38°C, 90%RH	OTR 23°C, 0%RH	SEAL PERFORMANCE
25OPP/20Met-OPP	✓	100%	0,3	50	+
20MB400/28UBWES	✓	98%	0,1	0,1	++
15OPP/12Met-PET/30CPP	✗	151%	0,3	0,5	++++
12PET/12Met-PET/30PE	✗	159%	0,3	0,5	++++

Jindal Films data



For use in market segments typically using VFFS pillow packs:

- Sensitive snacks such as crisps or chips
- Sensitive confectioneries where barrier is valued for longer shelf life
- Any segment where special attention to packaging speed, seal integrity or the deployment of lap (in/out) seals is desired

Laminate made by A. HATZOPOULOS 20OPP/28UBWES



Contact your Jindal Films representative for more information
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