

# RECYCLABLE PP MONO-MATERIAL SOLUTIONS WITH EXCELLENT BARRIER & HEAT SEAL PERFORMANCE

Delivering high performance for vertical doypacks (SUP) and side gusseted formats

## MONO-MATERIAL SOLUTION

<b>PRINT WEB:</b>	BICOR™ 20MB400 – heat sealable OPP film
<b>BARRIER WEB:</b>	METALLYTE™ 16MM883 – Ultra high barrier metallized OPP film
<b>INNER WEB:</b>	50-60µm Low SIT cast PP films
<b>CONVERSION:</b>	Hatzopoulos  <b>hatzopoulos</b> FLEXIBLE PACKAGING EXCELLENCE SINCE 1931

## PACKAGING MACHINERY

<b>SUPPLIER:</b>	SYNTEGON Packaging Solutions B.V. <b>SYNTEGON</b> PROCESSING & PACKAGING
<b>FORMAT:</b>	VFFS – doypack & side gusseted bag
<b>TYPE:</b>	SVX Agile model

## Features

- Mono-material compositions
- Conforms to CEN D4R guidelines
- Outstanding barrier to light, H<sub>2</sub>O, gases, (WTR 0.1, OTR 0.1), aromas and MO
- Low seal initiation temperature CPP sealant
- Much reduced packaging weight than most 3-ply non-recyclable solutions (e.g. PET/ALU/PE)
- Improved mechanical properties

## Benefits

- Full compatibility for mechanical recycling
- ALU-FREE, PET-FREE, PAPER-FREE
- Great barrier keeps product safe while tasting & feeling fresh!
- Provides outstanding protection for sensitive products with tight hermetic seals
- Robust VFFS performance for demanding Modified Atmospheric Packaging (MAP)
- Delivers double-digit percent packaging weight reduction



**SYNTEGON**  
PROCESSING & PACKAGING

**Jindal**  
Films

**Metallyte™ MM883** is a transparent 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) along with excellent light protection (OD 2.8)

A low SIT cast PP film is recommended in combination with an improved heat stable outer web to help transition away from more heat stable PET-ALU based structures

An **MB400/MM883/CPP** 3-ply laminate is ideal in most VFFS applications for most demanding dry food or beverage applications requiring a recyclable PP mono-material solution which was previously in non-recyclable constructions (e.g. PET/ALU/PE, PET/Met-PET/PE, Paper/ALU/PE) but require out/out sealability for closed gussets

Demanding VFFS formats usually resort to 3-ply non-mechanically recyclable laminates. They can be replaced with 3-ply laminates using higher performance PP films to deliver improved recyclability and conform to CEN 18120-7 design guidelines in Europe.

TRADITIONAL HIGH BARRIER LAMINATES FOR VERTICAL DOYPACK (SUP) & SIDE GUSSETED BAGS	MECHANICALLY RECYCLABLE	PACKAGING WEIGHT	MOISTURE BARRIER (WVTR)	GAS BARRIER (OTR)	PUNCTURE RESISTANCE	STIFFNESS
12 PET/7 ALU/70PE	X	100%	++++	++++	++	+++
12 PET/12 HB Met-PET/70 PE	X	98%	+++	+++	+++	+++
20 MB400/16 MM883/50 CPP	✓	79%	++++	++++	++++	+++
20 MB400/16 MM883/60 CPP	✓	89%	++++	++++	++++	++++

Jindal Films data

In some instances machine modifications are required as PP-based laminates do not have the same folding properties (i.e. dead-fold) and sealing delivered by Aluminum foil based structures.

For use in market segments typically using VFFS with block bottom formats

- Nuts and dry fruits
- Sensitive snacks
- Potentially any segment where high barrier with long shelf life is required



Laminate made by Hatzopoulos: 20MB400/16MM883/60CPP



Contact your Jindal Films representative for more information  
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