

# RECYCLABLE PP MONO-MATERIAL SOLUTION WITH HIGH SEAL PERFORMANCE OPP films

PP-based high performance barrier laminate for high speed HFFS machines

## MONO-MATERIAL SOLUTION

**PRINT WEB:** BICOR 12MB100 – heat stable OPP film

**INNER WEB:** METALLYTE 20MLB – Clear high barrier metallized OPP film with broad seal range

**CONVERSION:** SIT Group  

## PACKAGING MACHINERY

**SUPPLIER:** IMA GROUP  
EUROSICMA

**FORMAT:** HFFS flow-wrap

**TYPE:** EURO 88 EDG  
EURO 88 EDG IN LINE

  
Flexible Packaging Solutions

## Features

- Mono-material compositions (>90% PP)
- Thin heat resistant OPP with high Modulus and low shrinkage to enable rotogravure printing
- Very low heat seal initiation temperature met-OPP for very broad seal operating range (VBSR)
- Great balance of properties with heat resistance of thin outer web and very low SIT of inner web
- Ideal for most single-portion packs

## Benefits

- Conforms to CEFLEX recycling guidelines
- Full compatibility for mechanical recycling in PP or mixed PO streams
- PET-free and Paper-Free solutions
- Great barrier keeps dry products with first day freshness
- Robust HFFS performance for demanding high speed flow-wrap applications
- Provides great protection for sensitive biscuits, baked goods or confectioneries
- Delivers packaging weight reduction compared to most PET based laminates.



  
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Films

**BICOR™ MB100 is a very thin transparent non heat sealable OPP film with improved heat stability (low shrinkage) and very high Modulus for optimal machinability during conversion (e.g. rotogravure print) and on VFFS machines**

**Metallyte™ 20MLB** is a transparent high barrier vacuum metallized film with great moisture barrier (WVTR 0.3) and medium oxygen barrier (OTR 40) with excellent low temperature seal initiation temperature (SIT) designed for HFFS

**12MB100/20MLB laminate** is an ideal 2-ply OPP based barrier solution for flow-wrap customers requiring a recyclable PP mono-material design that was previously in non-recyclable constructions (e.g. PET/Met-OPP or Paper/Met-OPP) running at high linear speeds.

Demanding high speed HFFS formats usually resort to 2-ply non-mechanically recyclable laminates such as PET/Met-OPP. They can now be replaced with PP-based laminates using higher performance OPP films to deliver improved recyclability and conform to CEFLEX design guidelines in Europe.

HFFS 2-PLY LAMINATES FOR BAKERY & CONFECTIONERY SEGMENTS	MECHANICALLY RECYCLABLE	UNIT WEIGHT (g/m <sup>2</sup> )	"WVTR 38°C, 90%RH"	"OTR 23°C, 0%RH"	HFFS SEAL PERFORMANCE
15OPP / 20Met-OPP	✓	100%	0,3	50	++
12MB100 / 20MLB	✓	92%	0,3	50	+++
12MB100 / 20MLB	✗	101%	0,3	50	++++
12PET / 20Met-OPP	✗	98%	0,3	50	++++

Jindal Films data

For use in market segments typically using PET based laminates on HFFS machines with heat sealed flow-packs:

- Various biscuits, cookies or crackers
- Baked goods
- Sweet confectioneries
- Home& Personal Care products for portion packs such as detergent tablets
- Potentially any application where high speed is required



Laminate made by SIT: 12MB100/20MLB



Contact your Jindal Films representative for more information

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