

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  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.



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™ MLB 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 ²)	"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	40	+++
10PET / 20Met-OPP	✗	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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