

# RECYCLABLE PP MONO-MATERIAL SOLUTION WITH HIGH BARRIER OPP films (2-PLY)

Delivering high seal performance with PP-based laminates for VFFS formats

## MONO-MATERIAL SOLUTION

**PRINT WEB:** BICOR 20GNR – Matt heat sealable OPP film

**INNER WEB:** METALLYTE 28UBWES – Ultra high barrier white cavitated enhanced sealant OPP film

**CONVERSION:** INTERFLEX GROUP



INTERFLEX  
GROUP

## PACKAGING MACHINERY

**SUPPLIER:** TNA SOLUTIONS PTY.

**FORMAT:** VFFS – pillow bags with lap seals

**TYPE:** ROBAG® FX 3e



## Features

- PP mono-material film compositions (>90%)
- Conforms to CEFLEX recycling guidelines
- Outstanding barrier to light, H<sub>2</sub>O, gases, (WVTR 0.1, OTR 0.1), aromas and mineral oils
- Enhanced seal performance - seal strength > 9N/15mm
- High quality matt-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 or mixed PO streams
- 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)
- Great wrinkles-free performance using matt-look
- 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



**Jindal**  
Films

**BICOR™ GNR is a matt transparent OPP film with a heat seal design and controlled COF for good machinability on VFFS machines.**

**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)

**A GNR/UBWES laminate is ideal in most VFFS formats with lap or fin seals for most demanding snack or confectionery applications requiring a recyclable PP mono-material solution**

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 CEFLEX design guidelines in Europe.

VFFS LAMINATES FOR SNACKS & CONFECTIONS	MECHANICAL RECYCLABLE	UNIT WEIGHT (g/m <sup>2</sup> )	WTR 38°C, 90% RH	OTR 23°C, 0% RH	MAP SEAL PERFORMANCE
250PP / 20Met-OPP	✓	100%	0.3	50	+
20GNR / 28UBWES	✓	98%	0.1	0.1	++
150PP / 12Met-PET / 30CPP	✗	151%	0.3	0.5	+++
12PET / 12Met-PET / 30PE	✗	159%	0.3	0.5	++++

Jindal Films data



Laminate made by Interflex Group: 20GNR/28UBWES

For use in market segments typically using VFFS pillow packs:

- Sensitive snacks such as crisps, chips or pretzels
- 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



**Contact your Jindal Films representative for more information**

**www.jindalfilms.com**

**info@jindalfilms.com**



**Jindal**  
Films