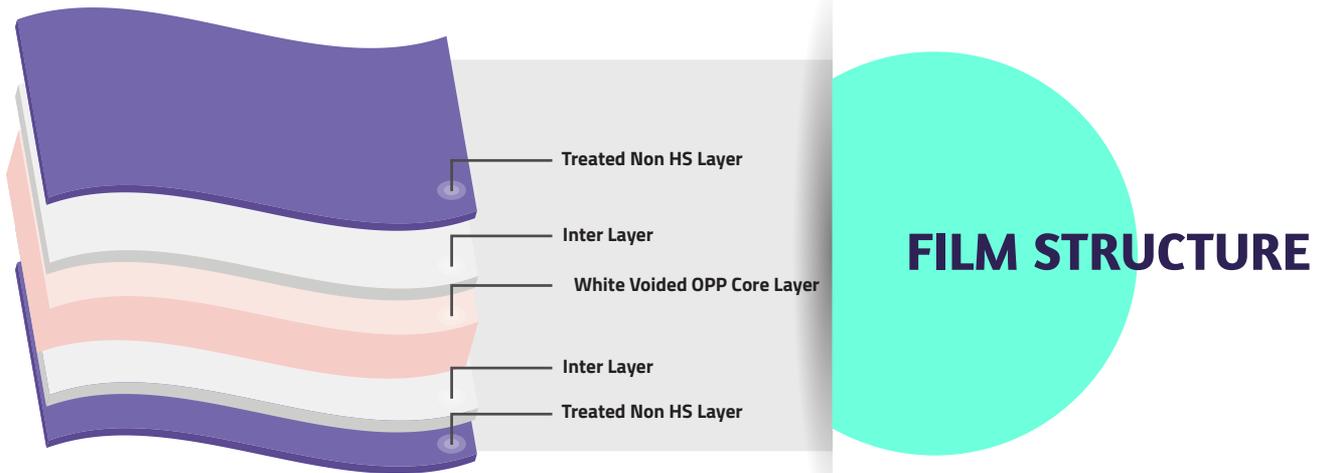


B-PNN

White Voided BOPP Film For Wrap Around Label

B-PNN is a superb gloss non heat sealable white voided film with both side treatment for label applications.



THE BIG DIFFERENTIATORS



Outstanding Opacity & Whiteness

Elegant prints with appealing graphics.



Superb Gloss

Imparting subtle richness to branding.



High Yield

Low gsm & high linear mileage.



Good Stiffness

Better performance on high speed.



Good Antistatic

Good machinability.

KEY FEATURES:

- Excellent opacity
- Superb gloss
- Good aesthetics
- High yield

APPLICATIONS:

- Wrap Around Label

PROPERTIES		TEST METHOD (ASTM)	UNIT	TYPICAL VALUES				
THICKNESS		Internal	Micron	28	30	35	38	40
			(Gauge)	112	120	140	152	160
FILM DENSITY		D-1505	gm/cc	0.65				
GRAMMAGE		Internal	gm/m ²	18.2	19.5	22.8	24.7	26.0
YIELD		Internal	m ² /kg	54.9	51.3	43.8	40.5	38.5
			in ² /lb	38594	36064	30791	28471	27065
TREATMENT LEVEL		D-2578	dyne/cm	38				
TRANSMITTANCE		D-1003	%	32	32	28	27	26
GLOSS (at 45°)		D-2457	Unit	98	98	98	98	98
TENSILE STRENGTH AT BREAK	MD*	D-882	kg/cm ²	700				
	TD*			1300				
	MD*		(KPsi)	9.9				
	TD*			18.5				
ELONGATION AT BREAK	MD*	D-882	%	180				
	TD*			50				
LINEAR SHRINKAGE (max) (5 Minutes at 130° C)	MD*	D-1204	%	6.0				
	TD*			3.0				
WATER VAPOUR TRANSMISSION RATE (38° C & 90% RH)		F-1249	gm/m ² /day	7.0	6.9	6.7	6.4	6.2
			(gm/100 in ² /day)	0.45	0.45	0.43	0.41	0.40
OXYGEN TRANSMISSION RATE (23° C & 0% RH)		D-3985	cc/m ² /day	2600	2400	2200	2100	2000
			(cc/100 in ² /day)	168	155	142	135	129

Ref no QAD UFLI S/14 – B 37/3

*MD = MACHINE DIRECTION *TD = TRANSVERSE DIRECTION

STORAGE & HANDLING

FLEXOPP™ does not require special storage conditions. It is recommended to storage below 30°C in order to avoid any deterioration of the film surface properties. It is advisable to use the material on FIFO basis. The film should be kept at operating environment for 24 hours before processing. FLEXOPP™ is best suitable for use within 6 months from date of dispatch.

FOOD CONTACT

FLEXOPP™ complies with EC and FDA regulations. Specific document and MSDS are available on request.

DISCLAIMER

It is the responsibility of our customers to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion purposes only. The customer may not rely on the data provided for any manufacturing purpose. The values provided in the technical data sheet represent typical values based on the best of our knowledge as of the date when the data was compiled. The data is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability/compatibility in all respects. Flex provides no warranty and accepts no liability for any loss or fitness of the product for any specific purpose based on the information contained in the technical data sheets. Flex reserves the right to change the technical data sheet at any time without prior notice.

**TDS issued on 01-04-2020. All previous version of this grade are invalid.

FlexFilms

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