

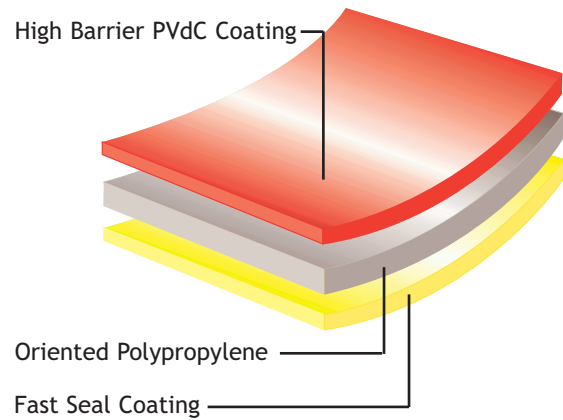
Propafilm™ FFX

Data

Fast Seal Coated High Barrier Film

Biaxially oriented polypropylene (BOPP) film with a fast seal coating on one side and an aqueous dispersion of polyvinylidene chloride (PVdC) on the other side.

- Exceptionally wide seal range on fast seal side
- Excellent seal properties in terms of strength, hot tack and integrity
- Totally forgiving on horizontal flow-wrap machines
- Fast sealing seals remain unaffected by changes in climatic conditions
- Very high barrier to water vapour, gases and aromas
- Good optical properties
- Good printability on PVdC side
- No seal compatibility between fast seal and PVdC coatings



Applications

FFX21/26/31 are suitable for use as a single film or in laminate structures for form-fill-seal packaging especially in the bakery and biscuit industries, requiring strong seals and excellent seal integrity.

Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	FFX		
Thickness	Innovia Films test		micron	21	26	31
Yield	Innovia Films test		m ² /kg g/m ²	50.2 19.9	40.9 24.5	34.5 29.0
Permeability to: Water vapour	ASTM F 1770	23 °C 85% RH 38 °C 90% RH	g/m ² .24 hrs	1.2 4.0	1.0 3.6	0.8 3.2
Oxygen	ASTM F 1927	23 °C 85% RH 23 °C 0% RH	cc/m ² .24 hrs	6 6		
Optical: Gloss	ASTM D 2457	45 °	units	100		
Haze (wide angle)	ASTM D 1003	2.5 °	%	2-3		
Coefficient of friction (out to out)	ASTM D 1894	Dynamic Dynamic	P/P F/F	0.30 0.50		
Sealing range	Innovia Films test	0.1 secs; 0.4 MN/m ²	F/F	°C 65-145		
Seal strength	Innovia Films test	100 °C; 1 secs; 0.10 MN/m ²	F/F	g(f)/25mm >500		
Shrinkage	Innovia Films test	60 secs at 120 °C 60 secs at 130 °C	% MD TD MD TD	4.9 1.4 8.6 2.0		

All properties are tested under standard laboratory conditions: 23± 2°C; 50±5% RH, unless otherwise stated. Where relevant, tests are based on international testing standards.

MD Machine Direction

TD Transverse Direction

P PVdC Surface

F Fast Seal Surface

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Reel Specifications

Nominal Reel Diameters

Film	Length/ (metres)					
	FFX21	1900	3800	7600	11400	15200
FFX26	1425	2850	5700	8550	11400	17100
FFX31	1250	2400	4800	7200	9600	14400
Outside Diameter for 77mm Core	240mm	330mm	450mm	ns	ns	ns
Outside Diameter for 153mm Core	ns	ns	475mm	570mm	650mm	785mm



ns = non-standard

Other reel lengths are available subject to negotiation.

Fast Seal Surface

The fast seal surface is available on either the inner or outer surface of Propafilm FFX.

The fast seal surface is indicated by a symbol on a label attached to each reel.

Fast Seal Surface	Ordering Code	Label Symbol
Inside	I	
Outside	O	

Film Storage & Handling

The low heat-seal threshold and wide seal range of Propafilm FFX film allows its use in particularly demanding packaging machine applications.

Care should therefore be taken to protect reels of film from storage temperatures above 30°C and localised sources of heat above 45°C.

Reels of Propafilm FFX should be protected from high levels of moisture and accidental water splashes at all times. The reels should remain in the protective coverings supplied until ready for use on converting or packaging machinery.

Converted reels, in both master and slit reel form should be similarly protected at all times.

Propafilm FFX is suitable for use for 6 months from the date of delivery and stocks should be used in rotation. Films should be allowed to reach operating room temperatures for 24 hours before use.

Food Contact

Propafilm FFX is suitable for most applications involving direct contact with foodstuffs. For specific enquiries, please refer to literature reference B120 or contact our Technical Services Department.

Health & Safety Guidelines

For Health and Safety information, please refer to literature reference B190.



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