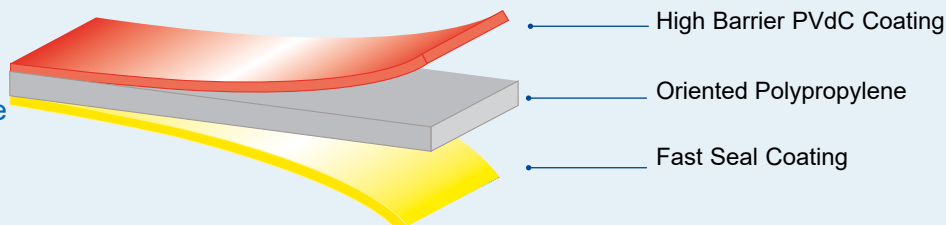


Propafilm™ FFX

Technical Data Sheet

FFX - 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.



Features

- 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 acrylic coatings

Applications

FFX21(85)/26(100)/31(125) 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		
				21	26	31
Thickness	Innovia Films test		micron	21	26	31
			gauge	85	100	125
Yield	Innovia Films test		m ² /kg	50.7	40.9	34.5
			in ² /lb	35650	28750	24250
			g/m ²	19.7	24.4	29.0
Permeability to: Water vapour	ASTM F 1249	38°C 90% RH 100°F 90% RH	g/m ² .24 hrs	4.0	3.6	3.2
			g/100in ² . 24 hrs	0.26	0.23	0.21
Oxygen	ASTM F 1927	23°C 0% RH 73°F 0% RH	cc/m ² .24 hrs	6	6	6
			cc/100in ² . 24 hrs	0.4	0.4	0.4
Optical: Gloss	ASTM D 2457	45°	units	100		
Haze (wide angle)	ASTM D 1003	2.5°	%	2-3		
Coefficient of friction (film to film)	ASTM D 1894	Static/ Dynamic		0.30		
				0.60		
Sealing range	Innovia Films test	2 secs; 0.10MN/m ² 2 secs; 15 psi	°C	65-145		
			°F	150-295		
Seal strength	Innovia Films test	130°C; 2 secs; 0.10MN/m ² 265°F; 2 secs; 15 psi	g(f)/25mm/ in	>500		
Shrinkage	Innovia Films test	60 secs at 120°C (250°F) 60 secs at 130°C (265°F)	% MD TD MD TD	4.9		
				1.4		
				8.6		
				2.0		

MD Machine Direction TD Transverse Direction

All properties are tested under standard laboratory conditions: 23 ± 2°C, 50 ± 5% RH, (73 ± 4F, 50 ± 5% RH), unless otherwise stated. Where relevant, tests are based on international testing standards.

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Reel Specifications

Nominal Reel Diameters

Film	Single Length (metres)	12x Length (metres)
FFX21	1900	22800
FFX26	1500	18000
FFX31	1250	15000



Film	Single Length (feet)	12x Length (feet)
FFX85	6250	75000
FFX100	4675	56100
FFX125	3950	47250

Other reel lengths are available subject to negotiation.

Outside Diameter	1x	2x	4x	6x	8x	12x
For 77mm / 3in core	240mm 9½in	330mm 13in	450mm 18in	-	-	-
For 153mm / 6in core	-	-	475mm 18¾in	570mm 22½in	650mm 25½in	785mm 31in

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.

Treated Surface	Ordering Code	Label Symbol
Inside	I	
Outside	O	

Film Storage and 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 (85°F) and localised sources of heat above 45°C (113°F). 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 complies with the applicable EU and US legislation for most applications involving direct contact with foods. Full details are given on the Declaration of Compliance. Customers intending to use Propafilm™ FFX in a food contact application should request a copy of this document from Innovia Films. Details of compliance with food contact legislation in non-EU countries are also available upon request.

Health & Safety Guidelines

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

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