

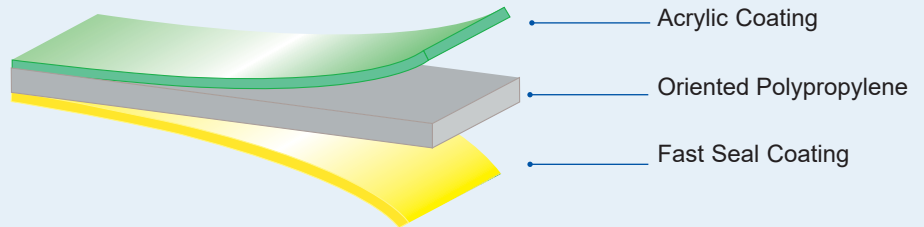
# Propafilm™ FFC



## Technical Data Sheet

### FFC - Fast Seal Coated Film

- Biaxially oriented polypropylene (BOPP) film with a fast seal coating on one side and an aqueous acrylic coating 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
- Good aroma and moisture barrier
- Good optical properties
- Excellent printability on acrylic side
- No seal compatibility between fast seal and acrylic coatings

### Applications

**FFC25(100)/30(120)** are suitable for use as single films or in laminate structures for form-fill-seal packaging especially in the bakery, biscuit and confectionery industries, requiring strong seals and excellent seal integrity.

### Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	FFC	
Thickness	Innovia Films test		micron	25	30
			gauge	100	120
Yield	Innovia Films test		m <sup>2</sup> /kg	44.0	36.9
			in <sup>2</sup> /lb	31000	25950
			g/m <sup>2</sup>	22.7	27.1
Permeability to: Water vapour	ASTM F 1249	38°C 90% RH 100°F 90% RH	g/m <sup>2</sup> .24 hrs	5.0	4.5
			g/100in <sup>2</sup> . 24 hrs	0.32	0.29
Oxygen	ASTM F 1927	23°C 0% RH 73°F 0% RH	cc/m <sup>2</sup> .24 hrs	850	750
			cc/100in <sup>2</sup> . 24 hrs	54.8	48.4
Optical: Gloss	ASTM D 2457	45°	units	95	
Haze (wide angle)	ASTM D 1003	2.5°	%	2-3	
Coefficient of friction (film to film)	ASTM D 1894	Static/ Dynamic		0.20-0.30	
				0.60	
Sealing range	Innovia Films test	2 secs; 0.10MN/m <sup>2</sup> 2 secs; 15 psi	°C	65-145	
			°F	150-295	
Seal strength	Innovia Films test	130°C; 2 secs; 0.10MN/m <sup>2</sup> 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	4.9	
			% TD	1.4	
			% MD	8.6	
			% TD	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.

Ref B600 - 1 of 2 - 0719

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### Reel Specifications

#### Nominal Reel Diameters

Film	Single Length (metres)	12x Length (metres)
FFC25	1500	18000
FFC30	1250	15000



Film	Single Length (feet)	12x Length (feet)
FFC100	4920	59055
FFC120	4100	49210

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™ FFC. 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™ FFC 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™ FFC 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™ FFC 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™ FFC 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™ FFC 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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Ref B600 - 2 of 2 - 0719

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