

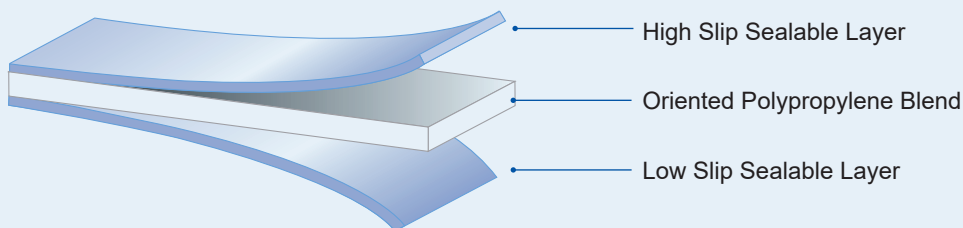
# Propafilm™ OS



## Technical Data Sheet

### OS - High Speed Overwrapping Film with Shrink Tightening Properties.

Biaxially oriented polypropylene (BOPP) film co-extruded on both sides with heat sealable polyolefinic copolymers.



### Features

- Superior sparkling appearance
- Superior controlled, balanced shrinkage
- Excellent moisture and flavour barrier
- Differential slip properties for tight wraps
- Strong seals for tamper evidence
- Overcomes film relaxation problems
- Resistant to solvent attack

### Applications

**OS20(80)/25(100)** are suitable for high speed overwrapping applications where exceptional pack appearance and wrap tightness are required. Particularly suitable for the magnetic and optical media, confectionery and tea industry.

### Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	OS	
Thickness	Innovia Films test		micron	20	25
			gauge	80	100
Yield	Innovia Films test		m <sup>2</sup> /kg	54.9	44.0
			in <sup>2</sup> /lb	38600	30900
			g/m <sup>2</sup>	18.2	22.7
Permeability to: Water vapour	ASTM F 1249	38°C 90% RH 100°F 90% RH	g/m <sup>2</sup> .24 hrs g/100in <sup>2</sup> . 24 hrs	6.0 0.39	4.1 0.26
Oxygen	ASTM F 1927	23°C 0% RH 73°F 0% RH	cc/m <sup>2</sup> .24 hrs cc/100in <sup>2</sup> . 24 hrs	1500 97	1400 90
Optical: Gloss	ASTM D 2457	45°	units	140	
Haze (wide angle)	ASTM D 1003	2.5°	%	1.0	
Coefficient of friction (out to out)	ASTM D 1894	Static/ Dynamic		0.40	
				0.25	
Tensile strength	ASTM D 882	Strain rate 50% / min	MN/m <sup>2</sup>	MD	170
				TD	210
			lb/in <sup>2</sup>	MD	24700
				TD	30500
Elongation at break	ASTM D 882	Strain rate 50% / min	%	MD	120
				TD	80
Elasticity modulus (1% secant)	ASTM D 882	Strain rate 10% / min	MN/m <sup>2</sup>	MD	3000
				TD	3600
			lb/in <sup>2</sup>	MD	435100
				TD	522100
Sealing range	Innovia Films test	2 secs; 0.10MN/m <sup>2</sup> 2 secs; 15 psi	°C	115-140	
			°F	240-285	
Seal strength	Innovia Films test	109°C; 2 secs; 0.10MN/m <sup>2</sup> 225°F; 2 secs; 15 psi	g(f)/25mm/ in	500	
Shrinkage	Innovia Films test	60 secs at 80°C (176°F) 60 secs at 120°C (248°F)	%	MD	3.7
				TD	3.5
				MD	7.0
				TD	11.0

MD Machine Direction TD Transverse Direction  
All properties are tested under standard laboratory conditions: 23 ± 2°C, 50 ± 5% RH, (73 ± 4°F, 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)
OS20	1900	22800
OS25	1500	18000


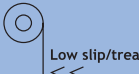
Film	Single Length (feet)	12x Length (feet)
OS80	6234	74802
OS100	4921	59055

Other reel lengths are available in multiples of the single length as per the core diameter listed below.

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

### Film Winding

Propafilm™ OS has differential slip properties for maximum wrap tightness. When overwrapping, it is advised to use the low slip surface on the inside of the packs. For conversion, it is recommended to treat the low slip surface which is identified by a symbol on the reel label.

Treated Surface	Ordering Code	Label Symbol
Inside	I	
Outside	O	

\*For printing application consult an Innovia Films Technical Representative.

### Film Storage and Handling

No special conditions are required for the storage of Propafilm™ OS but it is recommended that dry conditions at temperatures below 30°C (85°F) are employed. Propafilm™ OS 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™ OS 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™ OS 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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