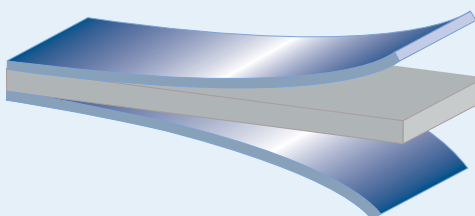


Propafilm™ SNC (Tobacco)

Technical Datasheet

SNC - Low Heat-Seal Threshold Film with Shrink Tightening Properties.

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



Very Low Heat-Seal Threshold, Good Hot Slip Layer

Oriented Polypropylene Blend

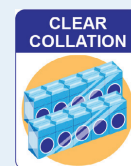
Very Low Heat-Seal Threshold Layer

Features

- Heat-sealable both sides via low seal threshold coats
- Controlled, balanced shrinkage
- Does not seal to coextruded films used in packet wrap provided recommended machine settings are used
- Good moisture and flavour barrier
- Optimised slip and anti-blocking both sides
- Strong seals for tamper evidence
- Very wide sealing range

Applications

SNC are suitable for clear /naked collation of wrapped packs where exceptional pack appearance is required.



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	SNC	
Thickness	Innovia Films test		micron	23	25
			gauge	92	100
Yield	Innovia Films test		m ² /kg	47.8	44.0
			in ² /lb	33600	30900
			g/m ²	20.9	22.7
Permeability to: Water vapour	ASTM F 1249	38°C 90% RH 100°F 90% RH	g/m ² .24 hrs	5.3	5.0
			g/100in ² . 24 hrs	0.34	0.32
Oxygen	ASTM F 1927	23°C 0% RH 73°F 0% RH	cc/m ² .24 hrs	1650	1600
			cc/100in ² . 24 hrs	106	103
Optical: Gloss Haze (wide angle)	ASTM D 2457 ASTM D 1003	20° 2.5°	units	125	
			%	1.5	
Coefficient of friction (out to out)	ASTM D 1894	Static/ Dynamic		0.30	
				0.20	
Tensile strength	ASTM D 882	Strain rate 50% / min	MN/m ²	MD	170
				TD	210
			lb/in ²	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 ²	MD	3000
				TD	3600
			lb/in ²	MD	435100
				TD	522100
Sealing range	Innovia Films test	2 secs; 0.10MN/m ² 2 secs; 15 psi	°C		90-140
			°F		195-285
Operational sealing range for clear wrap*	Innovia Films test	2 secs; 0.10MN/m ² 2 secs; 15 psi	°C		90-105
			°F		195-220
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 80°C (176°F) 60 secs at 120°C (248°F)	%	MD	3.0
				TD	2.0
					6.0
					9.0

MD Machine Direction TD Transverse Direction

*Operational sealing range will vary according to machine and is defined as the range most likely to provide effective sealing of the film to itself but not to the individually wrapped packs. 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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Propafilm™ SNC

Technical Data Sheet

Reel Specifications

Nominal Reel Diameters

Film	Length (metres)
SNC23	3300
SNC25	3000



Film	Length (feet)
SNC92	10827
SNC100	9843

Other reel lengths are available subject to negotiation.

Outside Diameter	
For 77mm / 3in core	330mm 13in
For 153mm / 6in core	355mm 14in

Film Winding

Propafilm™ SNC has differential hot slip properties for maximum wrap tightness. When overwrapping, it is advised to use the low slip (higher coefficient of friction) surface on the inside of the wrap, against the wrapped packs. Propafilm™ SNC is not recommended for printing applications.

Low Slip/Treated Surface	Ordering Code	Label Symbol
Inside	I	
Outside	O	

Film Storage and Handling

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