

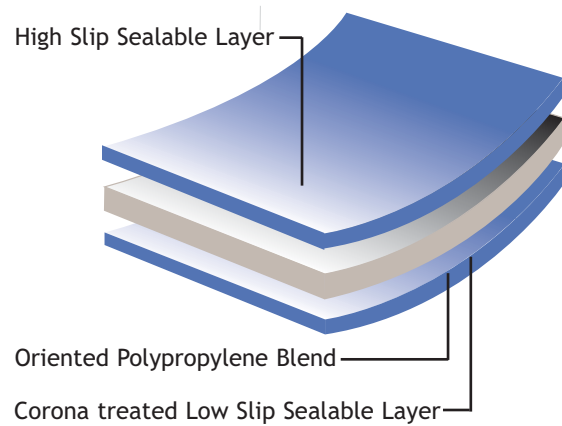
# Propafilm™ GLP

Data

## High Speed Overwrapping Film with Shrink Tightening Properties

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

- Printable one side
- Superior controlled, balanced shrinkage
- Enhanced machine performance
- Satisfies requirements for vending blocking applications
- Excellent moisture and flavour barrier
- Differential slip properties for tight wraps
- Overcomes film relaxation problems
- Resistant to solvent attack



## Applications

GLP20/25 are suitable for use in the tobacco industry for both high speed overwrapping of printed packs and display outers where exceptional pack appearance and wrap tightness are required.

## Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	GLP	
Thickness	Innovia Films test		micron	20	25
Yield	Innovia Films test		m <sup>2</sup> /kg g/m <sup>2</sup>	54.9 18.2	44.0 22.7
Permeability to: Water vapour	ASTM F 1770	23 °C 85% RH 38 °C 90% RH	g/m <sup>2</sup> .24 hrs	1.0 6.0	0.8 4.1
Oxygen	ASTM F 1927	23 °C 0% RH	cc/m <sup>2</sup> .24 hrs	1500	1400
Optical: Gloss	ASTM D 2457	20°	units	130	
Haze (wide angle)	ASTM D 1003	2.5°	%	1.3	
Coefficient of friction (out to out)	ASTM D 1894	Static Dynamic		0.40 0.30	
Blocking	Innovia Films test	70 °C / 200g /2hrs	N	6	
Tensile strength	ASTM D 882	Strain rate 50% / min	MN/m <sup>2</sup> MD TD	170 210	
Elongation at break	ASTM D 882	Strain rate 50% / min	% MD TD	120 80	
Elasticity modulus (1% secant)	ASTM D 882	Strain rate 10% / min	MN/m <sup>2</sup> MD TD	3000 3600	
Sealing range	Innovia Films test	2 secs; 0.10 MN/m <sup>2</sup>	°C	110-140	
Seal strength	Innovia Films test	109 °C; 1 sec; 0.10 MN/m <sup>2</sup>	g(f)/25mm	480	
Shrinkage	Innovia Films test	60 secs at 80 °C 60 secs at 120 °C	% MD TD MD TD	3.7 3.5 7.0 11.0	

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

## Reel Specifications

### Nominal Reel Diameters

Film	Length/(metres)			
	GLP20 GLP25	7600 6000	11400 9000	15200 12000
Outside Diameter for 77mm Core	465mm	565mm	645mm	ns
Outside Diameter for 153mm Core	485mm	580mm	660mm	800mm



ns = non-standard

Other reel lengths are available subject to negotiation.

### Film Winding/Discharge Treatment

Discharge treatment is available on either the inner or outer surface of Propafilm GLP.

The treated 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

No special conditions are required for the storage of Propafilm GLP but it is recommended that dry conditions at temperatures below 30°C are employed. Propafilm GLP 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 GLP complies with the compositional requirements of FDA 21CFR 177.1520. The film complies with the compositional requirements of EU food contact legislation. For specific enquiries, please refer to literature reference B110 or contact our Technical Services Department.

## Health & Safety Guidelines

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



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