

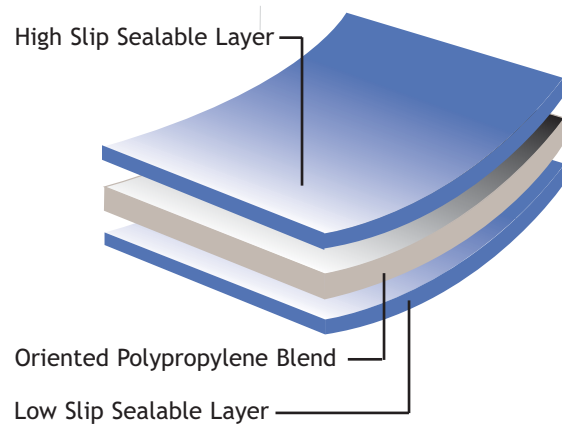
Propafilm™ GLS

Data

High Speed Overwrapping Film with Shrink Tightening Properties

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

- Superior sparkling appearance
- Superior controlled, balanced shrinkage
- Enhanced machine performance
- Excellent moisture and flavour barrier
- Differential slip properties for tight wraps
- Overcomes film relaxation problems
- Resistant to solvent attack



Applications

GLS20/25 are suitable for use in the tobacco industry for both high speed overwrapping of unit packs and display outers where exceptional pack appearance and wrap tightness are required.

Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	GLS	
Thickness	Innovia Films test		micron	20	25
Yield	Innovia Films test		m ² /kg g/m ²	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 ² .24 hrs	1.0 6.0	0.8 4.1
Oxygen	ASTM F 1927	23 °C 0% RH	cc/m ² .24 hrs	1500	1400
Optical: Gloss	ASTM D 2457	20°	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 ² 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 ² MD TD	3000 3600	
Sealing range	Innovia Films test	2 secs; 0.10 MN/m ²	°C	115-140	
Seal strength	Innovia Films test	109 °C; 1 sec; 0.10 MN/m ²	g(f)/25mm	500	
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)	
GLS20	2800	3800
GLS25	2200	3000
Outside Diameter for 77mm Core	290mm	330mm

Other reel lengths are available subject to negotiation.

Film Winding

Propafilm GLS 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.

Low slip/treatable Surface	Ordering Code	Label Symbol
Inside	I	
Outside	O	

*For printing application consult an Innovia Films Technical Representative

Film Storage

No special conditions are required for the storage of Propafilm GLS but it is recommended that dry conditions at temperatures below 30°C are employed. Propafilm GLS 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 GLS complies with the compositional requirements of FDA 21CFR 177.1520. This film does not comply with current EU food contact regulations and so should not be used for direct food contact in the EU Member States. 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.



www.innoviafilms.com
 email: filmsinfo@innoviafilms.com
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Sales Offices

Europe (UK)	Tel +44 (0)16973 42281
Americas (USA)	Tel +1 877 822 3456
Asia-Pacific (Aus)	Tel +61 3 9303 0600

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