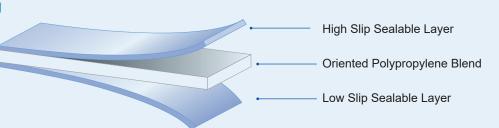
Propafilm™ OLS

Technical Data Sheet



OLS - High Speed Overwrapping Film with Shrink Tightening Properties.

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



Features

- Excellent sparkling appearance
- · Superior controlled, balanced shrinkage
- · Enhanced machine performance
- 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

OLS18(65)/20(80)/25(100) are suitable for high speed overwrapping and horizontal form-fill applications where exceptional pack appearance and wrap tightness are required. The wide sealing range and enchanced machine performance make OLS films particularly suited to demanding magnetic media, confectionery and tea applications.

Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units		OLS		
Thickness	Innovia Films test		micron gauge	18 72	20 80	25 100	
Yield	Innovia Films test		m²/kg in²/lb g/m²	61.0 42900 16.4	54.9 38600 18.2	44.0 31000 22.7	
Permeability to: Water vapour	ASTM F 1249	38°C 90% RH 100°F 90% RH	g/m².24 hrs g/100in². 24 hrs	6.8 0.49	6.0 0.39	4.1 0.26	
Oxygen	ASTM F 1927	23°C 0% RH 73°F 0% RH	cc/m².24 hrs cc/100in². 24 hrs	1800 142	1500 97	1400 90	
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			
Tensile Strength	ASTM D 882	Strain rate 50% / min	MN/m² MD		170 210 24700 30500		
Elongation at break	ASTM D 882	Strain rate 50% / min	% MD	120 80			
Elasticity modulas (1% secant)	ASTM D 882	Strain rate 10% / min	MN/m² MD TD Ib/in² MD TD	3000 3600 435100 522100			
Sealing range	Innovia Films test	2 secs; 0.10MN/m² 2 secs; 15 psi	°C °F	110-140 230-285			
Seal strength	Innovia Films test	109°C; 2 secs; 0.10MN/ m² 225°F; 2 secs; 15 psi	g(f)/25mm/in	480			
Shrinkage	Innovia Films test	60 secs at 80°C 60 secs at 120°C	% MD TD TD		3.7 3.5 7.0 11.0		

MD Machine Direction TD Transverse Direction

All properties are tested under standard laboratory conditions: $23 \pm 2^{\circ}$ C, $50 \pm 5\%$ RH,(73 ± 4 F, $50 \pm 5\%$ RH), unless otherwise stated. Where relevant, tests are based on international testing standards.



Ref B281 - 1 of 2 - 022

Propafilm[™] OLS

Technical Data Sheet

Reel Specifications Nominal Reel Diameters

Film	Single Length (metres)	12x Length (metres)		
OLS18	2100	25200		
OLS20	1900	22800		
OLS25	1500	18000		

Film	Single Length (feet)	12x Length (feet)		
OLS65	6890	82677		
OLS80	6234	74802		
OLS100	4921	59055		

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

Film Winding

Propafilm™ OLS 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	T.	Low slip/treat		
	Outside	0	Low slip/treat		

Film Storage and Handling

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

Disclaimer: Innovia Films or any of its affiliated companies (hereinafter 'Innovia Films') declines any liability with respect to the use made by any third party of the information contained herein. The information contained herein represents Innovia Films' best knowledge thereon without constituting any express or implied guarantee or warranty of any kind (including, but not limited to, the accuracy, the completeness or relevance of the data set out herein). Innovia Films is the sole owner or authorised user of the intellectual property rights relating to the information normations according to the use of the products is given for information purposes only. No guarantee or warranty is provided that the product is adapted to the client's specific use. The client should perform his own tests to determine the suitability for a particular purpose. The final choice of use of a product remains the sole responsibility of the client.

Ref B281 - 2 of 2 - 0222

Regional Offices:

Europe (UK) Tel +44 16973 42281 Americas (USA) Tel +1 877 822 6273 Asia-Pacific (Aus) Tel +61 3 9303 0600



www.innoviafilms.com email: packaging@innoviafilms.com ™Trademark of Innovia Films



