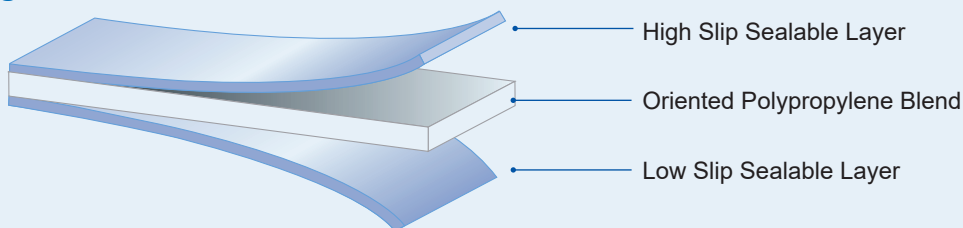


Technical Data Sheet

OVS - 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
- Controlled, balanced medium shrinkage
- Good moisture and flavour barrier
- Differential slip properties for tight wraps
- Strong seals for tamper evidence
- Overcomes film relaxation problem
- Resistant to solvent attack

Applications

OVS20 is suitable for high speed overwrapping and horizontal form-fill applications where pack appearance and wrap tightness are important.

Particularly suitable for the tea or confectionery industry, where a medium shrink tightening performance can be required for flimsier packs.

Technical Properties (Typical Values)

| Property | Test Method | Test Conditions | Units | OVS |
|---|--------------------|--|--|---------------------------|
| Thickness | Innovia Films test | | micron | 20 |
| Yield | Innovia Films test | | m ² /kg g/m ² | 54.9 18.2 |
| Permeability to: Water vapour | ASTM F 1249 | 23°C 85% RH 38°C 90% RH | g/m ² .24 hrs | 1.1 6.5 |
| Oxygen | ASTM F 1927 | 23°C 85% RH | cc/m ² .24 hrs | 1700 |
| Optical: Gloss | ASTM D 2457 | 45° | units | 130 |
| Haze (wide angle) | ASTM D 1003 | 2.5° | % | 1.3 |
| Coefficient of friction (film to film) | ASTM D 1894 | Static/ Dynamic | | 0.40 0.30 |
| Tensile strength | ASTM D 882 | Strain rate 50% / min | MN/m ² MD TD | 180 210 |
| Elongation at break | ASTM D 882 | Strain rate 50% / min | % MD TD | 110 90 |
| Elasticity modulus (1% secant) | ASTM D 882 | Strain rate 10% / min | MN/m ² MD TD | 2800 3300 |
| Sealing range | Innovia Films test | 2 secs; 0.10 MN/m ² | °C | 110-140 |
| Seal strength | Innovia Films test | 130°C; 2 secs; 0.10 MN/m ² | g(f)/25mm | 400 |
| Shrinkage | Innovia Films test | 60 secs at 120°C 60 secs at 130°C | % MD TD MD TD | 3.0 2.0 7.0 10.0 |

MD Machine Direction TD Transverse Direction

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.

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Propafilm™ OVS

Technical Data Sheet

Reel Specifications

Nominal Reel Diameters


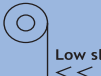
| Film | Single Length (metres) | 12x Length (metres) |
|-------|------------------------|---------------------|
| OVS20 | 1900 | 22800 |

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™ OVS 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 |  Low slip/treat >> |
| Outside | O |  Low slip/treat << |

*For printing application consult an Innovia Films Technical Representative.

Film Storage and Handling

No special conditions are required for the storage of Propafilm™ OVS but it is recommended that dry conditions at temperatures below 30°C are employed. Propafilm™ OVS 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™ OVS complies with the applicable EU legislation for most applications involving direct contact with foods. Full details are given on the Declaration of Compliance. Customers intending to use Propafilm™ OVS 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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