

Propafilm™ Strata SL

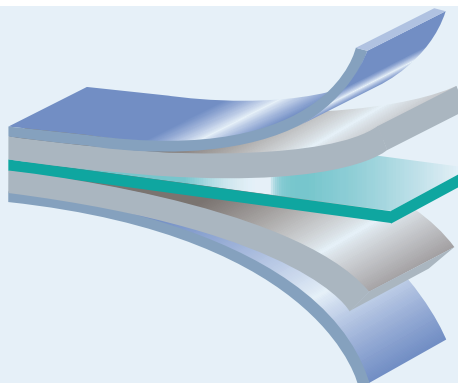
Technical Data Sheet



Strata SL

Multi-layer Extrusion Barrier Film

Transparent multi-layer BOPP film with oxygen, aroma and mineral oil barrier.



- Corona Treated Sealable Layer
- Oriented Polypropylene
- EVOH Barrier Layer
- Oriented Polypropylene
- Sealable Layer

Features

- High oxygen barrier, even at elevated RH%
- Excellent aroma barrier
- Provides mineral oil barrier
- High clarity to allow the consumer to see the product
- Suitable for lamination applications
- Wide seal and hot tack range
- A/A, B/B and A/B sealing
- Printable by Flexography and Gravure

Applications

- VFFS
- HFFS
- Lamination
- Bag making
- Pouches

Markets

- Biscuits
- Coffee
- Bakery
- Pet Food
- Snacks
- Cereal Bars
- Tea
- Confectionery

Technical Properties (Typical Values)

| Property | Test Method | Test Conditions | Units | SL | |
|---|--------------------|---|--------------------------------|------------------------|--------|
| Thickness | Innovia Films test | | micron | 30 | 40 |
| | | | gauge | 120 | 160 |
| Yield | Innovia Films test | | m ² /kg | 36.3 | 27.3 |
| | | | in ² /lb | 25500 | 19200 |
| | | | g/m ² | 27.5 | 36.6 |
| Permeability to: Water vapour | ASTM F 1249 | 38°C 90% RH 100°F 90% RH | g/m ² .24 hrs | 5.0 | 4.0 |
| | | | g/100in ² . 24 hrs | 0.32 | 0.26 |
| Oxygen | ASTM F 1927 | 23°C 50% RH 23°C 85% RH 73°F 50% RH 73°F 85% RH | cc/m ² .24 hrs | 10 | 10 |
| | | | cc/100in ² . 24 hrs | 20 | 20 |
| | | | | 0.65 | 0.65 |
| | | | | 1.29 | 1.29 |
| Optical: Gloss | ASTM D 2457 | 45° | units | 87 | 87 |
| Haze (wide angle) | ASTM D 1003 | 2.5° | % | 2.0 | 2.5 |
| Coefficient of friction (film to film) | ASTM D 1894 | Static/ Dynamic | | 0.2-0.45 | |
| Corona Treatment | Innovia Films test | | dynes/cm | 38 | |
| Tensile strength | ASTM D 882 | Strain rate 50% / min | MN/m ² | MD | 240 |
| | | | | TD | 200 |
| | | | lb/in ² | MD | 34800 |
| | | | | TD | 28900 |
| Elongation at break | ASTM D 882 | Strain rate 50% / min | % | MD | 75 |
| | | | | TD | 120 |
| Elasticity modulus (1% secant) | ASTM D 882 | Strain rate 10% / min | MN/m ² | MD | 3100 |
| | | | | TD | 2600 |
| | | | lb/in ² | MD | 449000 |
| | | | | TD | 377000 |
| Sealing range | Innovia Films test | 2 secs; 0.10MN/m ² 2 secs; 15 psi | °C | 110-145 | |
| | | | °F | 230-293 | |
| | | | | untreated to untreated | |
| Seal strength | Innovia Films test | 130°C 2 secs; 0.10MN/m ² 265°F 2 secs; 15 psi | g(f)/25mm in | 400 | |
| Shrinkage | Innovia Films test | 60 secs at 130°C (265°F) | % | MD | 7.5 |
| | | | | TD | 1.0 |

MD Machine Direction TD Transverse Direction

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. Ref B540 - 1 of 2 - 0320



use our imagination...

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Reel Specifications

Nominal Reel Diameters

| Film | Single Length (metres) | 12x Length (metres) |
|------|------------------------|---------------------|
| SL30 | 1250 | 15000 |
| SL40 | 950 | 11400 |



| Film | Single Length (feet) | 12x Length (feet) |
|-------|----------------------|-------------------|
| SL120 | 4100 | 49200 |
| SL160 | 3100 | 37400 |

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 |

Corona discharge treatment is available on either the inner or outer surface of Propafilm™ SL.

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 and Handling

No special conditions are required for the storage of Propafilm™ Strata SL but it is recommended that dry conditions at temperatures below 30°C are employed to minimise any deterioration of surface discharge treatment level. Propafilm™ Strata SL 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™ Strata SL 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™ Strata SL 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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