

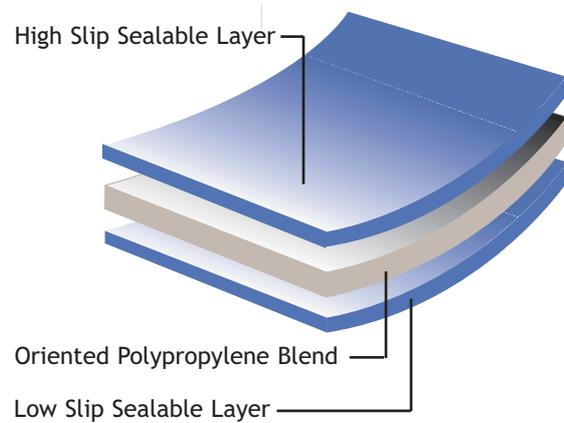
# Propafilm™ MLT

Data

## High Speed Overwrapping Film

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

- Excellent sparkling appearance
- High speed packing ability
- Excellent moisture and flavour barrier
- Differential slip properties
- Satisfies European requirements for vending blocking applications
- Enhanced machine performance



## Applications

MLT20 is generally used for high speed overwrapping of packets and cartons. Particularly suitable for use in the tobacco industry.

## Technical Properties (Typical Values)

| Property                                | Test Method        | Test Conditions                           | Units                                  | MLT                      |
|---|--------------------|---|--|--------------------------|
| Thickness                               | Innovia Films test |   | micron                                 | 20                       |
| Yield                                   | Innovia Films test |   | m <sup>2</sup> /kg<br>g/m <sup>2</sup> | 54.9<br>18.2             |
| Permeability to:<br>Water vapour        | ASTM F 1770        | 23 °C 85% RH<br>38 °C 90% RH              | g/m <sup>2</sup> .24 hrs               | 1.1<br>6.0               |
| Oxygen                                  | ASTM F 1927        | 23 °C 0% RH                               | cc/m <sup>2</sup> .24 hrs              | 1700                     |
| Optical:<br>Gloss                       | ASTM D 2457        | 20°                                       | units                                  | 130                      |
| Haze (wide angle)                       | ASTM D 1003        | 2.5°                                      | %                                      | 1.3                      |
| Coefficient of friction<br>(out to out) | ASTM D 1894        | Static<br>Dynamic                         |  | 0.40<br>0.30             |
| Blocking                                | Innovia Films test | 70 °C / 200g / 2hrs                       | N                                      | 6                        |
| Tensile strength                        | ASTM D 882         | Strain rate<br>50% / min                  | MN/m <sup>2</sup> MD<br>TD             | 190<br>190               |
| Elongation at break                     | ASTM D 882         | Strain rate<br>50% / min                  | % MD<br>TD                             | 110<br>100               |
| Elasticity modulus<br>(1% secant)       | ASTM D 882         | Strain rate<br>10% / min                  | MN/m <sup>2</sup> MD<br>TD             | 2900<br>2900             |
| Sealing range                           | Innovia Films test | 2 secs;<br>0.10 MN/m <sup>2</sup>         | °C                                     | 110-145                  |
| Seal strength                           | Innovia Films test | 120 °C; 2 secs;<br>0.10 MN/m <sup>2</sup> | g(f)/25mm                              | 400                      |
| Shrinkage                               | Innovia Films test | 60 secs at 120 °C<br>60 secs at 130 °C    | % MD<br>TD<br>MD<br>TD                 | 5.0<br>4.0<br>7.0<br>7.0 |

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) |       |
|--------------------------------|------------------|-------|
|                                | MLT20            | 2800  |
| Outside Diameter for 77mm Core | 290mm            | 330mm |

Other reel lengths are available subject to negotiation.

### Film Winding

Propafilm MLT 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             | <br>Low slip/treatable<br>>>  |
| Outside                    | O             | <br>Low slip/treatable<br><< |

### Film Storage

No special conditions are required for the storage of Propafilm MLT but it is recommended that dry conditions at temperatures below 30°C are employed. Propafilm MLT 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 MLT 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.



CERTIFICATE NUMBER Q929

[www.innoviafilms.com](http://www.innoviafilms.com)  
 email: [filmsinfo@innoviafilms.com](mailto:filmsinfo@innoviafilms.com)  
 ™Trademark of Innovia Films Group

### Sales Offices

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

**Disclaimer:** Innovia Films Ltd 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 communicated.

The information relating 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.