

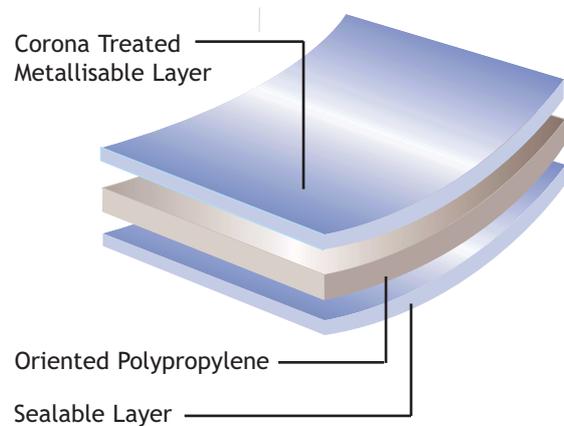
Propafilm™ MVG

Data

Metallisable Film

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

- Smooth surface for brilliant metallised appearance
- Excellent metal adhesion
- Compatible in laminates with Propafilm RGP
- Heat sealable on both sides for stripe metallising
- Receptive to cold seal coatings
- Gives excellent moisture and good gas barrier properties on metallising



Applications

MVG is suitable for vacuum metallising with aluminium and other substances. The metallised surface may be over-printed or lacquered. MVG20 is normally metallised for use in laminates with other

substrates, particularly Propafilm RGP. MVG30 can be metallised for use as a single web film in horizontal form-fill-and-seal applications.

Technical Properties (Typical Values)

| Property | Test Method | Test Conditions | Units | MVG | |
|---|--------------------|---|---------------------------|-----------------------------------|------|
| Thickness | Innovia Films test | | micron | 20 | 30 |
| Yield | Innovia Films test | | m ² /kg | 54.9 | 36.6 |
| | | | g/m ² | 18.2 | 27.3 |
| Permeability to: Water vapour | ASTM F 1770 | 23 °C 85% RH | g/m ² .24 hrs | 1.4 | 1.0 |
| | | 38 °C 90% RH | | 7.5 | 5.0 |
| Oxygen | ASTM F 1927 | 23 °C 0% RH | cc/m ² .24 hrs | 2300 | 1600 |
| Optical: Gloss | ASTM D 2457 | 45 ° | units | 105 | |
| Haze (wide angle) | ASTM D 1003 | 2.5 ° | % | 1.0-2.0 | |
| Coefficient of friction (film to film) | ASTM D 1894 | Static / Dynamic | | 0.4-0.6 | |
| Corona treatment | Innovia Films test | | dynes/cm | 38 | |
| Tensile strength | ASTM D 882 | Strain rate 50% / min. | MN/m ² | MD | 240 |
| | | | | TD | 190 |
| Elongation at break | ASTM D 882 | Strain rate 50% / min. | % | MD | 90 |
| | | | | TD | 130 |
| Elasticity modulus (1% secant) | ASTM D 882 | Strain rate 10% / min. | MN/m ² | MD | 2700 |
| | | | | TD | 2300 |
| Sealing range | Innovia Films test | 2 secs; 0.10 MN/m ² | °C | 115-145 untreated to untreated | |
| Seal strength | Innovia Films test | 130 °C; 2 secs; 0.10 MN/m ² | g(f)/25mm | >350 untreated to untreated | |
| Shrinkage | Innovia Films test | 60 secs at 130 °C | % | MD | 6.0 |
| | | | | TD | -1.0 |

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) | | | | | |
|---------------------------------|-----------------|-------|-------|-------|-------|-------|
| | MVG20 | 1900 | 3800 | 7600 | 11400 | 15200 |
| MVG30 | 1250 | 2500 | 5000 | 7500 | 10000 | 15000 |
| Outside Diameter for 77mm Core | 240mm | 330mm | 450mm | ns | ns | ns |
| Outside Diameter for 153mm Core | ns | ns | 475mm | 570mm | 650mm | 785mm |

ns = non-standard

Other reel lengths are available subject to negotiation.

Corona Discharge Treatment

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

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

Propafilm MVG 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 MVG is suitable for most applications which involve direct contact with foodstuffs, provided the subsequent metallised surface is not allowed to come into direct contact. 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.



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