

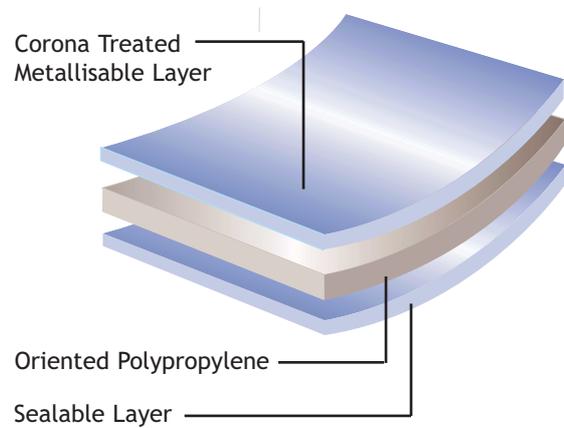
# Propafilm™ MVU

Data

## Enhanced Surface Metallisable Film

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

- Enhanced metal reception surface for high barrier metallised films
- Excellent metal adhesion
- Compatible in laminates with Propafilm RGP
- Heat sealable on both sides for stripe metallising
- Receptive to cold seal coatings
- Gives very high moisture and gas barrier properties on metallising



## Applications

**MVU15** is suitable for vacuum metallising with aluminium and other substances. The metallised surface may be over-printed or lacquered.

**MVU** is normally metallised for use in laminates with other substrates, particularly Propafilm RGP.

## Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	MVU
Thickness	Innovia Films test		micron	15
Yield	Innovia Films test		m <sup>2</sup> /kg g/m <sup>2</sup>	73.3 13.6
Permeability to: Water vapour	ASTM F 1770	23 °C 85% RH 38 °C 90% RH	g/m <sup>2</sup> .24 hrs	2.0 10.0
Oxygen	ASTM F 1927	23 °C 0% RH	cc/m <sup>2</sup> .24 hrs	3200
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 <sup>2</sup> MD TD	240 190
Elongation at break	ASTM D 882	Strain rate 50% / min.	% MD TD	90 130
Elasticity modulus (1% secant)	ASTM D 882	Strain rate 10% / min.	MN/m <sup>2</sup> MD TD	2700 2300
Sealing range	Innovia Films test	2 secs; 0.10 MN/m <sup>2</sup>	°C	115-145 untreated to untreated
Seal strength	Innovia Films test	130 °C; 2 secs; 0.10 MN/m <sup>2</sup>	g(f)/25mm	>350 untreated to untreated
Shrinkage	Innovia Films test	60 secs at 130 °C	% MD TD	6.0 -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

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## Reel Specifications

### Nominal Reel Diameters

Film	Length/(metres)				
	5000	10000	15000	20000	30000
MVU15	5000	10000	15000	20000	30000
Outside Diameter for 77mm Core	330mm	450mm	ns	ns	ns
Outside Diameter for 153mm Core	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 MVU. 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 MVU but it is recommended that dry conditions at temperatures below 30°C are employed to minimise any deterioration of surface discharge treatment level.

Propafilm MVU 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 MVU 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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