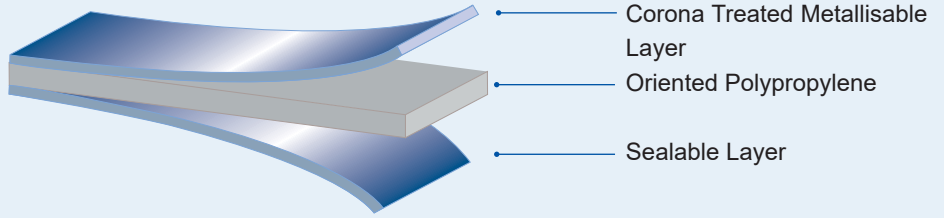


# Propafilm™ MVU

## Technical Data Sheet

### MVU - Enhanced Surface Metallisable Film.

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



### Features

- 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(60)** 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™ REF.

### Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	MVU	
Thickness	Innovia Films test		micron	15	
			gauge	60	
Yield	Innovia Films test		m <sup>2</sup> /kg	73.3	
			in <sup>2</sup> /lb	51650	
			g/m <sup>2</sup>	13.6	
Permeability to: Water vapour	ASTM F 1249	38°C 90% RH 100°F 90% RH	g/m <sup>2</sup> .24 hrs	10.0	
			g/100in <sup>2</sup> . 24 hrs	0.65	
Oxygen	ASTM F 1927	23°C 0% RH 73°F 0% RH	cc/m <sup>2</sup> .24 hrs	3200	
			cc/100in <sup>2</sup> . 24 hrs	206	
Optical: Gloss	BS 2923	20°	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
			lb/in <sup>2</sup>	MD TD	34700 27500
			%	MD	90
				TD	130
Elongation at break	ASTM D 882	Strain rate 50% / min	%	MD	90
				TD	130
			MN/m <sup>2</sup>	MD	2700
				TD	2300
lb/in <sup>2</sup>	MD	390600			
	TD	332800			
Sealing range	Innovia Films test	2 secs; 0.10MN/m <sup>2</sup> 2 secs; 15 psi	°C	115-145	
			°F	240-295	
				untreated to untreated	
Seal strength	Innovia Films test	120°C; 2 secs; 0.10MN/m <sup>2</sup> 248°F; 2 secs; 15 psi/	g(f)/25mm/ in	>350	
			untreated to untreated		
Shrinkage	Innovia Films test	60 secs at 130°C (265°F)	%	MD	6.0
				TD	-1.0

MD Machine Direction TD Transverse Direction

All properties are tested under standard laboratory conditions: 23 ± 2°C, 50 ± 5% RH, (73 ± 4F, 50 ± 5% RH), unless otherwise stated. Where relevant, tests are based on international testing standards.

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### Reel Specifications

#### Nominal Reel Diameters

Film	Single Length (metres)	12x Length (metres)
MVU15	5000	30000



Film	Single Length (feet)	12x Length (feet)
MVU60	16400	98400

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	330mm 13in	450mm 18in	-	-	-	-
For 153mm / 6in core	-	-	-	570mm 22½in	650mm 25½in	785mm 31in

### 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	

\*For printing application consult an Innovia Films Technical Representative.

### Film Storage and Handling

No special conditions are required for the storage of Propafilm™ MVU but it is recommended that dry conditions at temperatures below 30°C (85°F) are employed. 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 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™ MVU 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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