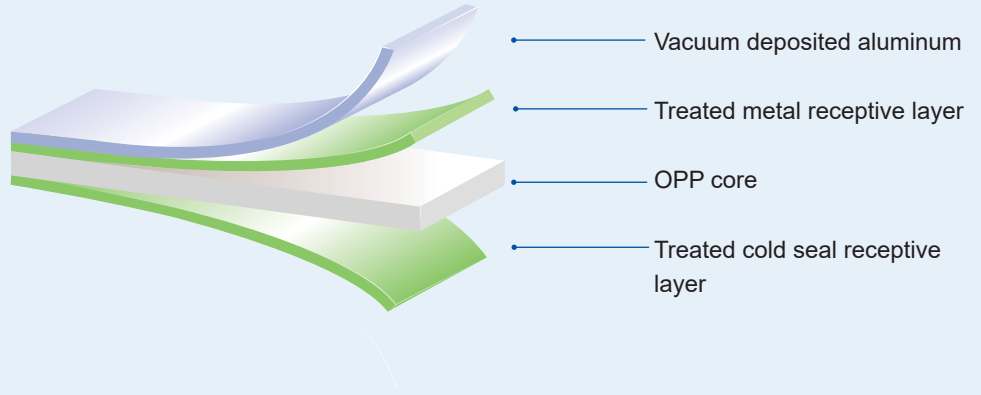


Propafilm™ MNS

Technical Data Sheet

MNS - High barrier metallised, coextruded OPP film, designed for cold seal applications



Features

- Good cold seal adhesion
- Excellent adhesive and metal bond
- High moisture and light barrier
- Excellent block resistance

Application

- Horizontal packaging in single web or laminated form with reverse cold seal coating
- High impact point-of-sale presentation
- Baked goods and confectionery



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	MNS	
Thickness	Innovia test method		micron	15	
			gauge	60	
Yield	ASTM D 4321		in ² /lb	51,600	
			m ² /kg	73.3	
Basis Weight	ASTM D 4321		g/m ²	13.7	
			lbs/ream	8.4	
Tensile strength	Innovia test method		kpsi	MD	20.3
				TD	43.5
Elongation at break	Innovia test method		%	MD	160
				TD	60
Optical density	Innovia test method			2.0	
MVTR	Innovia test method	38°C (100°F)/90% RH	g/m ² /day	<0.30	
			g/100in ² /day	<0.019	
OTR	Innovia test method		cc/m ² /day	<50	
			cc/100in ² /day	<3.87	

MD Machine Direction TD Transverse Direction
 All properties are tested under standard laboratory conditions: 73 ± 4F, 50 ± 5% RH (23 ± 2°C, 50 ± 5% RH) unless otherwise stated. Where relevant, tests are based on international standards.
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 Propafilm™ MNS – 1 of 2 – 0719

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Conversion

Treatment and Winding	Surface Printing
Metal surface wound to outside of roll	Ink recommendations for all print processes are available
See roll tag about surface characteristics	Bump treatment of the metallised surface and application of a primer is recommended to optimize adhesion of surface inks or coatings. A protective top coat is suggested for applications with less than 100% ink coverage
	Polypropylene film characteristics are maintained for 6 months from the date of production except for metallised layer surface tension
	Excellent web flatness permits higher speed printing
	Run appropriate trials prior to production

Conversion Note -

Generally PVB or NC-based inks with adequate adhesion promoter are suitable for printing on this film. Drying temperatures should not exceed 170°F (76°C). Lowest possible web tension should be applied during conversion of this film. Usually laminated to Innovia Films' NHD using solvent-based, solvent-less adhesives or extrusion. Excellent sealing strength and anchorage with certain cold seal adhesives. Consult your coating supplier. Excellent barrier results can be achieved with adhesive lamination.

Nominal Reel Diameters

Film	Length (metres)		
MNS 15	5,000	15,000	30,000

Film	Length (feet)		
MNS 60	16,404	49,213	98,425

Outside Diameter	1x	3x	6x
For 3in / 77mm core	13.0" (in) 330mm	-	-
For 6in / 153mm core	-	22.7" (in) 577mm	31.3" (in) 796mm

All rolls are wound to length. Actual OD may vary with thickness and winding density variations.

Film Storage and Handling

The films should be placed in the processing area 24 hours prior to processing, to acclimatise. The films are largely unaffected by climatic conditions but should not be stored at temperatures above 104°F (40°C). Under suitable storage conditions, the film can be stored for a period of 6 months without any risk of deterioration.

Food Contact

Propafilm™ MNS is FDA approved for food contact. Please contact Technical Services for other Food Contact statements.

Health & Safety Guidelines

MSDS sheets, as well as other product safety documents, are available for our films upon request.

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Propafilm™ MNS – 2 of 2 – 0719

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