

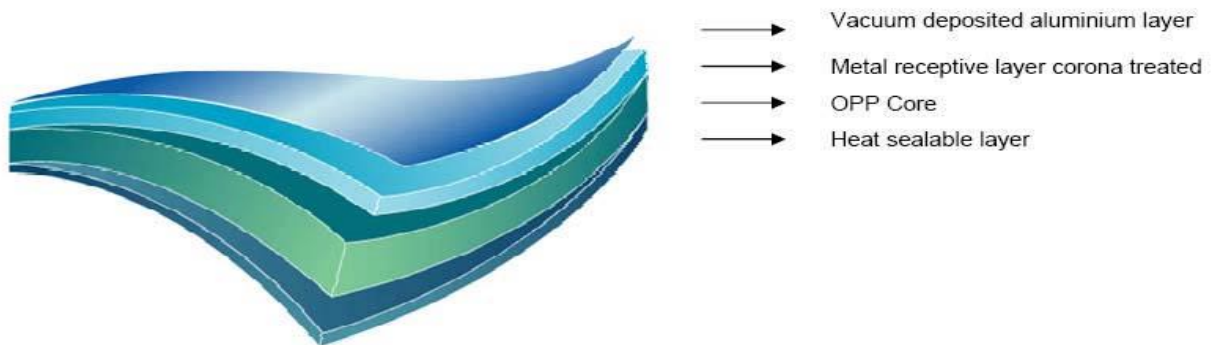


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TECHNICAL DATA SHEET

METALLIZED BIORIENTED POLYPROPYLENE FILM ONE- SIDE HEAT SEALABLE

MSB

Co-extruded metallised BOPP film, one-side heat sealable (SIT 105°C)



PROPERTIES

- ◆ Excellent metal adhesion
- ◆ Good metal appearance
- ◆ Very good moisture and light barrier

TYPICAL APPLICATIONS

- ◆ Suitable to protect sensitive products
- ◆ Lamination using the thinner gauges
- ◆ Single film using the thicker gauges
- ◆ When printing on the metal surface a primer is recommended

FOOD CONTACT

MSB fully meets the overall migration requirements of EC Directive 2002/72/EC and USA FDA CFR21 sect.177.1520, and is therefore suitable for direct food contact.

It is not recommended that the metallised surface is used in direct food contact.

ROLL SIZE AVAILABILITY

Availability	Standard Length (m)	4x (m)	6x (m)	8x (m)
MSB 15	4,250	17,000	25,500	34,000
MSB 18	3,550	14,200	21,300	28,400
MSB 20	3,200	12,800	19,200	25,600
MSB 25	2,550	10,200	15,300	20,400
MSB 30	2,100	8,400	12,600	16,800
MSB 35	1,800	7,200	10,800	14,400
Outside diameter - core 76 mm	305 mm	588 mm	716 mm	825 mm
Outside diameter - core 152 mm	337 mm	605 mm	730 mm	838 mm

MSB

Properties		Unit	Measuring method	MSB 15	MSB 18	MSB 20	MSB 25	MSB 30	MSB 35
Nominal thickness		μm		15	18	20	25	30	35
Weight per unit area		g / m^2	ISO4591	13.7	16.4	18.2	22.8	27.3	31.9
Density		g / cm^3		0.91					
Yield		m^2 / kg		73.2	61.0	55.0	44.0	36.6	31.3
Seal Strength		$\text{N} / 25.4 \text{ mm}$	130°C / 0.5 s. / 1 bar	4.0	4.5	5.5	6.0	6.5	7.0
Sealing Range		°C		105 - 140					
Coefficient of Friction, (dynamic) film to film			ISO 8295	< 0.6					
Tensile Strength	MD	N / mm^2	DIN EN ISO 527-1/-3	150					
	TD			250					
Elongation at Break	MD	%	DIN EN ISO 527-1/-3	200					
	TD			60					
Shrinkage	MD	%	ASTM D 1204 120°C / 5min	4					
	TD			2					
Optical Density			Macbeth	2.0					
WVTR 38°C 90% r. h.		$\text{g} / \text{m}^2 \text{d}$	ASTM 1249	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
OTR 23°C 0% r. h.		$\text{cm}^3 / \text{m}^2 \cdot \text{d} \cdot \text{bar}$	ASTM 3985	< 100	< 100	< 100	< 100	< 100	< 100

PRE-TREATMENT INDICATION

Standard MSB will be supplied with the metallised side wound outside.

STORAGE, HANDLING AND APPLICATION RECCOMENDATIONS

MSB will maintain consistent performance over a period of 6 months from date of production and should be converted during that time. Products should be stored below 40°C, in dry and sun protected environment.

MD Machine direction

TD Transverse direction

CI/CI Inner layer/ Inner Layer

NOTE:



The above-mentioned data have been obtained using standard test procedures on defined specimens, and are provided in good faith.

These results should therefore be regarded only as a general guide to material properties. It is for the customer to determine / decide a product's suitability for his / her own particular purpose. **IMPEX GLOBAL FILMS** does not claim and responsibility of the product for any particular purpose.