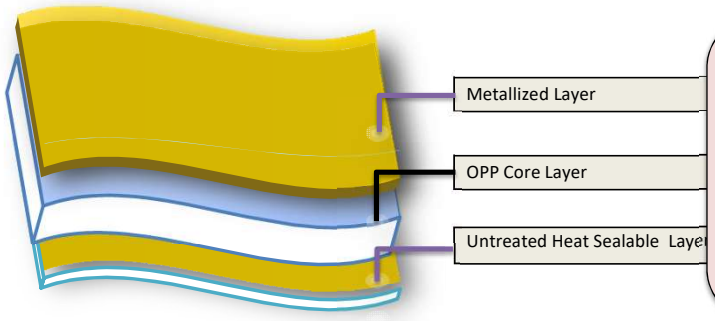
SURYA SGF
SHAPING FUTURE

SGF BOPP H1-MD
TECHNICAL DATA SHEET

H1-MD : Metallized BOPP film having metal deposited on plasma treated side and Other side untreated heat sealable.



FILM STRUCTURE

The big salient feature of SGF BOPP H1-MD film

- Good Sealing properties & high sealing strength
- Excellent metal adhesion & treatment retention after metallisation
- Good barrier properties for moisture & oxygen
- Good process ability
- Good stiffness mechanical properties

KEY FEATURES:

*Good process ability during metallization.
* Good sealing properties in term of sealing strength & hot tack.
* Good treatment retention after Metal
* Good stiffness & mechanical Properties.
*Good processability during metallization.
* Very good moisture barrier.
* Good oxygen barrier.

APPLICATIONS:

* Conversion application.
* Lamination.

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PROPERTIES		TEST METHOD (ASTM)	UNIT	TECHNICAL DATA					
THICKNESS		Internal	Micron	15	18	20	25	30	35
			(Gauge)	60	72	80	100	120	140
FILM DENSITY		D-1505	gm/cc	0.91	0.91	0.91	0.91	0.91	0.91
GRAMMAGE		Internal	gm/m2	13.7	16.4	18.2	22.8	27.3	31.9
YIELD		Internal	m2/kg	73.3	61.1	54.9	44.0	36.6	31.4
TREATMENT LEVEL		D-2578	dy/cm	38					
OPTICAL DENSITY (BY TOBIAS)		Internal	-	2.2 ± 5%					
HEAT SEAL RANGE @2 bar pressure,1 sec dwell time		Internal	^{0}C	105 - 130					
SEALING STRENGHT @120°C,2 bar pressure,1 sec dwell time		Internal	gm/25mm	> 350					
COEFF OF FRICTION	Dynamic	Internal	-	0.30 - 0.45					
TENSILE STRENGTH AT BREAK	MD*	D-882	kgf/cm2	1250					
	TD*			2600					
ELONGATION AT BREAK	MD*	D-882	%	150 - 200					
	TD*			40 - 90					
LINEAR SHRINKAGE (at 120°C/5 mins)	MD*	D-1204	%	< 5.0					
	TD*			< 3.0					
WATER VAPOUR TRANSMISSION RATE (38° C & 90% RH)		F-1249	gm/m2/day	0.60	0.50	0.50	0.40	0.40	0.35
OXYGEN TRANSMISSION RATE (23° C & 0%RH)		D-3985	cc/m2/day	100	95	95	90	90	85

Note: MD – Machine Direction, TD – Transverse Direction

STORAGE & HANDLING

SGFBOPPTM does not require special storage conditions. It is recommended to storage below 30°C in order to avoid any deterioration of the film surface properties. It is advisable to use the material on FIFO basis. The film should be kept at anperating environment for 24 hours before processing.SGFBOPPTM is best suitable for use within 3 months from date of dispatch.

DISCLAIMER

It is the responsibility of our customers to determine that their use of our products is safe, lawful, and technically suitable in their intended applications. The technical data sheets are provided for discussion purposes only. The customer may not rely on the data provided for any manufacturing purpose. The values provided in the technical data sheet represent typical values based on the best of our knowledge as of the date when the data was compiled. The data is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability/compatibility in all respects.SGF provides no warranty and accepts no liability for any loss or fitness of the product for any

*TDS issued on 05-08-2025. All previous version of this grade are invalid.

SGF BOPP FILMS Manufacturing Facilities in India SURYA GLOBAL FLEXIFILIMS Pvt.Ltd, A-119/1,Sector-29 Yamuna Expressway Industrial Development authority Gautam Buddha Nagar, Uttar pradsh-203201,