

**METALLIZED HEAT SEALABLE BOPP FILM FOR LAMINATION**



**VACUUM METALLIZED LAYER**

**MODIFIED TRANSPARENT INNER LAYER**

**CORE LAYER**

**UNTREATED HEAT SEALABLE LAYER  
(SIT 105° C)**

**DESCRIPTION :**

METALLIZED HEAT SEALABLE STANDARD BARRIER  
BOPP FILM WITH LOW SIT (105°C)

**SALIENT FEATURES**

- Excellent Metal Appearance
- Good Metal Adhesion
- Good Seal Functionality
- Good Runability at High Speed During Lamination & on HFFS m/c
- Standard Barrier Properties

**APPLICATION**

- Printing / Lamination / Single - Two Ply Structure for Biscuits / Cookies / Crackers / Confectionary Pouches

Properties	Test Methods	Unit	Typical Values					
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**PHYSICAL**

Thickness	ASTM D374	Micron (±3%)	15	18	20	25	30	35
		(Gauge)	60	72	80	100	120	140
Grammage	SPLTM	gm/m <sup>2</sup>	13.7	16.4	18.2	22.8	27.3	31.9
Yield	SPLTM	m <sup>2</sup> /kg	73.3	61.1	54.9	44.0	36.6	31.4
		in <sup>2</sup> /lb	51507	42922	38630	30904	25753	22074
Density	SPLTM	gm/cc	0.91					

**OPTICAL**

Optical Density (Tolerance ±5%)	SPLTM	-	2.0-2.2 (This product is also available in 2.5 & 2.7 Optical Density)					
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**MECHANICAL**

Coefficient of Friction- Max (UTR/UTR) (Dynamic)	ASTM D1894	-	0.30-0.40					
Tensile Strength at Break	ASTM D882	kg/cm <sup>2</sup>	MD	1100 - 1200				
			TD	2000 - 2500				
Elongation at Break	ASTM D882	%	MD	150 - 200				
			TD	40 - 60				

**THERMAL**

Linear Shrinkage (120°C/5min)	ASTM D1204	%	MD	6.0				
			TD	3.0				
Heat Seal Initiation Temperature (SIT)	SPLTM	°C	105					
Heat Seal Strength	SPLTM	gms/25mm	350	375	400	400	425	450

**BARRIER**

Water Vapour Transmission Rate (38°C & 90% RH)	ASTM F-1249	g/m <sup>2</sup> /day	1.1	1.0	1.0	0.9	0.9	0.8
Oxygen Gas Transmission Rate (23°C & 0% RH)	ASTM D-3985	cc/m <sup>2</sup> /day	125	110	100	100	100	80

**DISCLAIMER**

The specified values are based on average results, measured by the manufacturer during standard production. They should not be considered as Data Sheet of any particular product. The user is solely responsible for all determinations by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Satyendra Packaging Ltd disclaims any liability for damages arising from the non-suitability of the product for the effected application.

**Food Contact**

The BOPP Film complies with all national and international standards and requirements for food contact. Specific declaration of compliances are available upon request.

**Storage & Handling**

The products should be stored at temperature of 10-30 deg C and a low humidity (below 70% RH) in dry & covered warehouse for longer shelf life.

**SPLTM** : SATYENDRA PACKAGING LTD TEST METHOD  
**ASTM** : AMERICAN SOCIETY FOR TESTING AND MATERIALS

**MD** : MACHINE DIRECTION  
**TD** : TRANSVERSE DIRECTION

**UTR** : UNTREATED