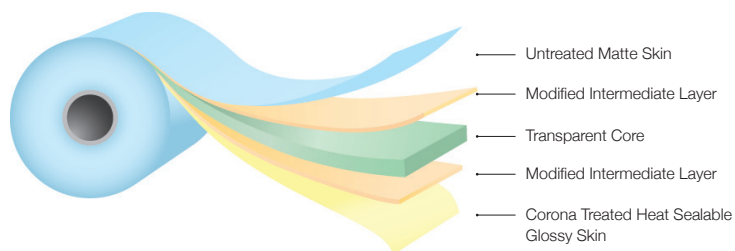


OPLAR-SMA grade is Sealable Matte Finish BOPP Film for matte aesthetics as well as release applications (Application Code-H04). This film is available with one side corona treated glossy and other side as untreated matte finish surface.

## TYPICAL APPLICATIONS

- Healthcare and cosmetics
- Chips and snacks
- Confectionery



## PRODUCT FEATURES

- Matte finish exterior for differentiated shelf appeal
- Non-toxic - suitable for food contact
- Suitable for printing and lamination
- Good enactment in HFFS and VFFS machines

Properties	Test method	Unit	Position	Product Code				
				SMA18	SMA20	SMA25	SMA30	SMA35
Nominal Thickness	SRF Method	Micron	-	18	20	25	30	35
Grammage	ASTM D 1505	gm/m <sup>2</sup>	-	16	18	22	26	31
Yield	SRF Method	m <sup>2</sup> /kg	-	63	57	45	38	32
Density	SRF Method	g/cc	-	0.88	0.88	0.88	0.88	0.88
<b>MECHANICAL</b>								
Tensile Strength	ASTM D 882	Kg/cm <sup>2</sup>	MD	1100	1100	1100	1100	1100
			TD	2200	2200	2200	2200	2200
Elongation at Break		%	MD	190	190	190	190	190
			TD	70	70	70	70	70
Elastic Modulus		%	MD	17000	17000	17000	17000	17000
			TD	28000	28000	28000	28000	28000
<b>SURFACE</b>								
Treatment Level	ASTM D 2578	Dyne/cm	TI/TO	38	38	38	38	38
Coefficient of Friction (Max)	ASTM D 1894	Kinetic	UT/UT	0.50	0.50	0.50	0.50	0.50
<b>THERMAL</b>								
Shrinkage (Max)	SRF Method	%	MD	4.0	4.0	4.0	4.0	4.0
			TD	2.0	2.0	2.0	2.0	2.0
<b>SEALING</b>								
Heat Seal Temp. Range	SRF Method	°C	-	110-145				
Heat Seal Strength	SRF Method	gm/25mm	UT/UT	200	200	200	200	200
<b>OPTICAL</b>								
Haze	ASTM D 1003	%	-	75	75	75	75	75
Gloss	ASTM D 2457	^45°	Matte Side	8-12	8-12	8-12	8-12	8-12
<b>BARRIER</b>								
WVTR (Max)	ASTM E 96	gm/m <sup>2</sup> /day	-	8.0	7.5	6.0	5.0	4.5
OTR (Min)	ASTM D 1434	cc/m <sup>2</sup> /day	-	2600	2300	2000	1700	1700

MD - Machine Direction, TD - Transverse Direction | TI - Treatment Inside, TO - Treatment Outside, UT - Untreated

Notes: 1) Corona treated side is available wound inside/outside of the roll - customer to specify accordingly; 2) Above properties can be modified to suit customer's requirement; 3) Unless otherwise specified, the values given above are nominal.

## DISCLAIMER

The information provided above is based on SRF FLEXI PAK conclusive tests, which are indicative only and provided as guidelines. Customers are solely responsible for the end use in all respects. Customers should verify the suitability of the film for its end use. SRF FLEXI PAK gives no warranty or accepts liability for any loss and fitness of the product for any specific purpose. SRF FLEXI PAK reserves the right to change the technical data sheet at any time for enhancing the quality of the product without prior information. **STORAGE CONDITIONS:** A storage condition between 22 to 30°C and RH 40-60% is recommended in order to minimize the deterioration of the film properties in general. It is advisable to turn out the inventory on FIFO basis. The film should be conditioned in the operating environment for at least 24 hours before processing.



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