

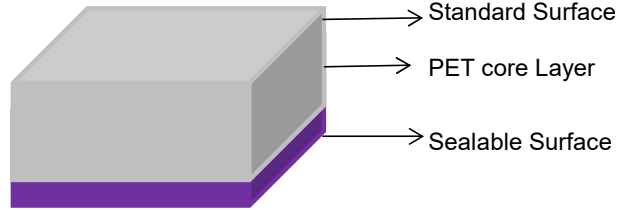


# Technical Data Sheet

## ARYAFILM - A500



ARYAFILM A500 is co extruded one side heat sealable film, Heat sealable layer is designed to heat seal to itself or APET, CPET, PVC etc suitable for flexible packaging & dual oven able.



Sr. No.	Properties	Unit	Test Method	Target	Minimum	Maximum	
<b>General</b>							
1	Thickness	Micron	JBF Method	12.0	11.64	12.36	
		Gauge		48.00	46.56	49.44	
2	Yield	M <sup>2</sup> /Kg	JBF Method	59.52	57.79	61.36	
3	Density	gm/cc	ASTM D 1505	1.395			
4	Roll width	mm	JBF Method	- 0 , + 3			
<b>Mechanical</b>							
1	Tensile Strength at break	MD/TD	Kg/cm <sup>2</sup> (Kpsi)	ASTM D 882	1900	1700	2100
					27.0	24.2	29.9
2	Elongation at break	MD	%	ASTM D 882	130	90	170
		TD			120	80	160
3	Co-efficient of friction (One to Other side)	Static	--	ASTM D 1894	0.50	0.40	0.60
		Dynamic			0.45	0.35	0.55
4	Heat Seal Strength (Seal to Seal) @120°C/2 Sec 30 N	gm/25mm	JBF Method	350	250	550	
<b>Thermal</b>							
1	Shrinkage @ 150 <sup>o</sup> C/30'	MD	%	ASTM D 1204	1.8	1.2	2.4
		TD			0.4	0.0	0.8
2	Melting Point	°C	DSC	252	250	255	
<b>Optical</b>							
1	Haze	%	ASTM D 1003	3.5	2.5	4.5	
2	Transmittance	%	ASTM D 1003	88.0	85.0	91.0	
<b>Surface treatment level</b>							
1	Plain side	Dyne/cm	ASTM D 2578	44	42	46	
2	Sealable side	Dyne/cm	ASTM D 2578	46	44	48	
<b>Barrier</b>							
1	W.V.T.R. (38°C & 90% RH)	gm/m <sup>2</sup> /day	ASTM F 1249	40	30	50	
		gm/100in <sup>2</sup> /day		2.58	1.94	3.23	
2	O.T.R. (23°C & 0%RH)	cc/m <sup>2</sup> /day	ASTM D 3985	100	80	120	
		cc/100in <sup>2</sup> /day		6.45	5.16	7.74	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling: ARYA FILM need to be stocked in a closed warehouse & should not be exposed to direct sun light or light sources. Avoid extreme of humidity and heat. It is recommended to store below 40°C in dry places in original packing & shelf life of above product is Six Months from date of Invoice.

**Food Contact:** ARYA FILM complies with EU10/2011 and US FDA regulations, Specific document and MSDS are available on request.

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