

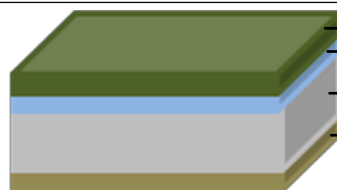


# Technical Data Sheet

## ARYALOX – AS410



**ARYALOX AS 410** Top coated on Alox Metalized side other side plain Polyester film. The PET surface is coated to provide a clear, exceptionally high barrier & Printable for flexible packaging applications.



Coated surface  
Alox Metalized surface  
Transparent PET core  
Standard surface

Sr.No.	Properties	Unit	Test Method	Nominal value	Minimum	Maximum
<b>General</b>						
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	11.7 (46.8)	12.30 (49.2)
2	Yield	M <sup>2</sup> /Kg	JBF Method	59.52	61.05	58.07
3	Density	gm/cc	ASTM D 1505	1.395		
<b>Mechanical</b>						
1	Tensile Strength at break MD / TD	MD Kg/cm <sup>2</sup> (Kpsi )	ASTM D 882	2100 (29.8)	1900 (27.0)	2300 (32.7)
2	Elongation at break	MD	ASTM D 882	120	90	150
		TD		110	80	140
3	Co-efficient of friction	Static	ASTM D 1894	0.50	0.40	0.60
		Dynamic		0.45	0.35	0.55
<b>Thermal</b>						
1	Shrinkage @ 150° C/30'	MD	ASTM D 1204	1.8	1.4	2.2
		TD		0.4	0.0	0.80
2	Melting Point	°C	DSC	255		
<b>Optical Properties</b>						
1	Haze (Max)	%	ASTM D 1003	3.0	2.5	3.5
<b>Surface Treatment level</b>						
1.	Surface Tension (coated side)	Dyne/cm	ASTM D 2578	70	68	72
2.	Surface Tension (plain side)			54	52	56
<b>Barrier Properties</b>						
1	M.V, T.R 38°C 90%RH (Max)	gm/m <sup>2</sup> /day	ASTM F 1249	≤ 0.5		
		gm/100in <sup>2</sup> /day		≤ 0.032		
2	O.T.R 23°C 50 %RH(Max)	cc/m <sup>2</sup> /day	ASTM F 1927	≤ 0.8		
		cc/100in <sup>2</sup> /day		≤ 0.051		
<b>Physical</b>						
1	Roll Length	Meter	JBF Method	≤12000		
2	Width	mm	JBF Method	-0, +3		
3	Splice	--	JBF Method	Max. 10% roll with one splice		

**Note : In case of metalized film the surface energy from poly side is increased due to the surface energy transfer from metal side**

MD = Machine Direction, TD = Transverse Direction

**Storage & Handling:** ARYALOX need to be stocked in a closed warehouse & should not be exposed to direct sun light or light sources. Avoid extreme humidity and heat. It is recommended to store below 40°C in dry places in original packing.

**Food Contact:** ARYALOX complies with EC and FDA regulations on packaging for direct contact with foodstuffs. Specific document and MSDS are available on request.

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