

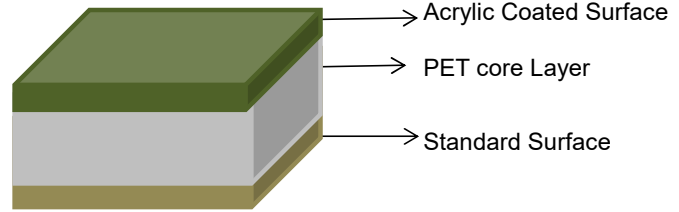


# Technical Data Sheet

## ARYAFILM - A431



ARYAFILM A431 is one side acrylic coated Polyester film , this film is suitable for improved ink Adhesion for high quality printing & lamination process of flexible packaging applications.



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	ASTM D 882	2000	1800	2200
				(Kpsi)	28.4	25.6
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	0.45	0.35	0.55
		Dynamic		0.40	0.30	0.50
<b>Thermal</b>						
1	Shrinkage @ 150 <sup>o</sup> C/30'	MD	ASTM D 1204	1.6	1.2	2.0
		TD		0.4	0.0	0.8
2	Melting Point	<sup>o</sup> 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	Acrylic coated side	Dyne/cm	ASTM D 2578	40	38	42
2	Plain Side	Dyne/cm	ASTM D 2578	44	42	46
<b>Barrier</b>						
1	W.V.T.R. (38 <sup>o</sup> 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 <sup>o</sup> 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<sup>o</sup>C in dry places in original packing & shelf life of above product is One year from date of Invoice.

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

**Disclaimer:** The information given above is to the best of our knowledge and experience. Some of the properties can be changed as a result of suppliers' efforts to improve upon the quality or production efficiency of the subject. The information is believed to be true and accurate and is not intended to violate any statutory condition or right of a third party. JBF BAHRAIN W.L.L makes no warranty, express or implied, as to the fitness of the product for any specific use or purpose. The above data is purely for readers' consideration, investigation and verification and should be read in conjunction with the conditions for sale or contract