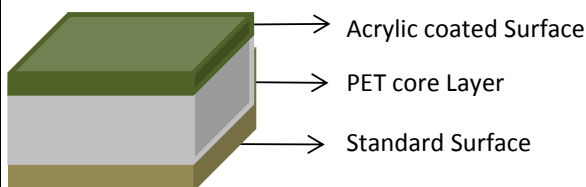


ARYAFILM A431 is one side acrylic coated Polyester film, this film is suitable for improved ink Adhesion for high quality printing & lamination process of flexible packaging applications.



Sr. No.	Properties	Unit	Test Method	Target	Minimum	Maximum	
General							
1	Thickness	Micron	JBF Method	12	11.64	12.36	
		Gauge		48	46.56	49.44	
2	Yield	M ² /Kg	JBF Method	59.52	57.79	61.36	
3	Density	gm/cc	ASTM D 1505	1.395			
4	Service Temp	°C	JBF Method	-70 to 150			
Mechanical							
1	Tensile Strength at break	MD/TD	Kg/cm ² (Kpsi)	ASTM D 882	2100	1900	2300
					29.9	27.0	32.7
2	Elongation at break	MD	%	ASTM D 882	130	90	170
		TD			120	80	160
3	Co-efficient of friction (One side to Other side)	Static	--	ASTM D 1894	0.45	0.35	0.55
		Dynamic			0.40	0.30	0.50
Thermal							
1	Shrinkage @ 150° 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	
Optical							
1	Haze	%	ASTM D 1003	3.5	2.5	4.5	
2	Transmittance	%	ASTM D 1003	88	85	91	
Surface treatment level							
1	Acrylic coated side	Dynes/cm	ASTM D 2578	40	38	42	
2	Plain Side	Dynes/cm	ASTM D 2578	44	42	46	
Barrier							
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day	ASTM F 1249	40	30	50	
		gm/100in ² /day		2.58	1.94	3.23	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day	ASTM D 3985	100	80	120	
		cc/100in ² /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

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 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

Website: www.jbfrak.com

Email: filminfo@jbfrak.ae

T.D.S No. JBF/TDS/708

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