

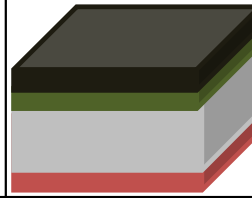


Technical Data Sheet

ARYAFILM AM451



ARYAFILM AM451 is metalized on modified co-polymer Coated surface other side corona treated side polyester film , promoting very high bond strength. this film is suitable for flexible packaging applications where in it is required to resist Sterilization in hot water or steam



Metalized surface
Modified copolymer Coated surface
PET core Layer
Corona Treated surface

Sr. No.	Properties	Unit	Test Method	Target	Minimum	Maximum		
General								
1	Thickness	Micron	JBF Method	12.00	11.64	12.36		
		Gauge		48.00	46.56	49.44		
2	Yield	M ² /Kg	JBF Method	59.52	57.79	61.36		
Mechanical								
1	Tensile Strength at break	MD/TD	Kg/cm ² (Kpsi)	ASTM D 882	2000	1800	2200	
					28.4	25.6	31.3	
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	0.60	0.50	0.70	
		Dynamic			0.55	0.45	0.65	
4	Metal Bond Strength	gm/25 mm	TP-105-92	800	700	900		
Thermal								
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	2.0	1.4	2.6	
		TD			0.4	0.0	0.8	
2	Melting Point	^o C	DSC	252	250	255		
Surface treatment level								
1	Corona Treated surface	Dynes/cm	ASTM D 2578	52	50	54		
Barrier								
Optical Density			M.V.T.R. (ASTM F 1249)			O.T.R. (ASTM D 3985)		
(JBF Method)			gm/m2/day (38°C 90%RH)			cc/m2/day (23°C 0 %RH)		
Target	Minimum	Maximum	Target	Minimum	Maximum	Target	Minimum	Maximum
2.2	2.0	2.4	0.9	0.7	1.1	1.0	0.8	1.2
2.5	2.3	2.7	0.7	0.5	0.9	0.8	0.6	1.0
2.8	2.6	3.0	0.5	0.3	0.7	0.6	0.4	0.8
3.0	2.8	3.2	0.3	0.2	0.5	0.4	0.2	0.6

MD = Machine Direction, TD = Transverse Direction

To convert from m2/day to 100 inch2/day divide the m2 result by 15.5 ,

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 month from the date of invoice.

Food Contact: ARYA FILM complies with EC and FDA regulations on packaging for indirect contact with foodstuffs. Specific document and MSDS are available on request.

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