

Technical Specification

ARYAPET – A491

ARYAPET A491 One side corona treated Matte film suitable for label application & flexible packaging applications

Sr. No.	Properties	Unit	Test Method	Typical Values			
General							
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	23 (92)	50 (200)	
2	Yield	M ² /Kg	JBF Method	59.5	31.1	14.3	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	
Mechanical							
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	2000 (31.3)	1800 (28.2)	1800 (28.2)
		TD			1850 (29.0)	1800 (28.2)	1800 (28.2)
2	Elongation at break	MD	%	ASTM D 882	100	100	100
		TD			80	70	70
3	Co-efficient of friction	Static	--	ASTM D1894	0.35	0.35	0.35
		Dynamic			0.26	0.26	0.26
Thermal							
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	2.0	1.8	1.6
		TD			0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	
Optical							
1	Haze	%	ASTM D 1003	47	65	83	
2	Transmittance	--	ASTM D 1003	87	85	83	
3	Gloss	%	ASTM D 2457	48	42	40	
Surface Treatment level							
1	Corona side	Dynes/cm	JBF Method	56	56	56	
2	Plain film side	Dynes/cm	JBF Method	42	42	42	
Barrier							
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day (gm/100in ² /day)	ASTM E 96	40 (2.6)	22 (1.4)	10 (0.6)	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day (cc/100in ² /day)	ASTM D 3985	100 (6.5)	70 (4.5)	40 (2.6)	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

ARYA PET need to be stock ed In a closed warehouse & should not exposed to the direct sun light or light sources , Avoid extremes of humidity , It is recommended to store below 40°C in dry places

Food Contact:

ARYA PET 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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