

# Technical Specification

## ARYAPET – A460

ARYAPET A460 Hazy film suitable for electrical, Industrial application.

Sr. No	Properties	Unit	Test Method	Typical Values							
<b>General</b>											
1	Thickness	Micron Gauge	JBF Method	12 48	15 (60)	19 (76)	23 92	36 144	50 200	75 300	
2	Yield	M <sup>2</sup> /Kg	JBF Method	59.5	47.6	37.5	31.1	19.8	14.3	9.52	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	1.4	1.4	
<b>Mechanical</b>											
1	Tensile Strength at break	MD	Kg/cm <sup>2</sup> (Kpsi)	ASTM D 882	2100 (28.8)	2100 (29.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)	1900 (27.0)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)	2000 (28.4)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100	110
		TD			100	100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.45	0.45	0.45	0.45	0.45	0.45	0.45
		Dynamic			0.40	0.40	0.40	0.40	0.40	0.40	0.40
<b>Thermal</b>											
1	Shrinkage @150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	1.8	1.8	1.6
		TD			0.4	0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	255	255	
<b>Optical</b>											
1	Haze	%	ASTM D 1003	4	4.0	4.5	5.0	6.0	7.0	8.0	
<b>Electrical</b>											
1	Break Down Voltage	KV	ASTM D 149	3.5	4.0	4.5	5.5	7.5	9.5	12.5	
2	Surface Resistivity	Ohm	ASTM D 257	10 <sup>12</sup>							
3	Volume Resistivity	Ohm-cm	ASTM D 257	10 <sup>16</sup>							
4	Dielectric constant	-	ASTM D 150	2.6-3.7							
5	Dissipation Factor	--	IEC 250								
	23 <sup>0</sup> C – 50 Hz										0.002
	23 <sup>0</sup> C – 1 KHz										0.005
	23 <sup>0</sup> C – 1 MHz										0.011
	0 <sup>0</sup> C – 50 Hz										0.004
	50 <sup>0</sup> C – 50 Hz										0.0015
	100 <sup>0</sup> C – 50 Hz										0.007
150 <sup>0</sup> C – 50 Hz	0.006										

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.

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 RAK LLC** 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.

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<b>General</b>												
1	Thickness	Micron Gauge	JBF Method	100 400	125 500	175 700	190 760	250 1000	300 1200	350 1400		
2	Yield	M <sup>2</sup> /Kg	JBF Method	7.14	5.71	4.08	3.76	2.85	2.38	2.04		
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	1.4	1.4		
<b>Mechanical</b>												
1	Tensile Strength at break	MD	Kg/cm2 (Kpsi)	ASTM D 882	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1700 (24.2)	1700 (24.2)	
		TD			1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1800 (25.6)	1800 (25.6)	
2	Elongation at break	MD	%	ASTM D 882	110	120	120	120	120	130	130	
		TD			100	110	110	110	110	120	120	
3	Co-efficient of friction	Static	--	ASTM D 1894	0.45	0.45	0.45	0.45	0.40	0.40	0.40	
		Dynamic			0.40	0.40	0.40	0.40	0.35	0.35	0.35	
<b>Thermal</b>												
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.4	1.4	1.4	1.4	1.2	1.2	1.2	
		TD			0.4	0.4	0.4	0.4	0.4	0.4	0.4	
2	Shrinkage @ 190° C/20'	MD	%	ASTM D 1204	3.0	3.0	3.0	3.0	2.5	2.5	2.5	
		TD			1.0	1.0	1.0	1.0	1.0	1.0	1.0	
3	Melting Point	°C	DSC	255	255	255	255	255	255	255		
<b>Optical</b>												
1	Haze	%	ASTM D 1003	10	12	15	17	22	30	35		
<b>Electrical</b>												
1	Break Down Voltage	KV	ASTM D 149	14	17	18	20	22	24	26		
2	Surface Resistivity	Ohm	ASTM D 257	10 <sup>12</sup>								
3	Volume Resistivity	Ohm-cm	ASTM D 257	10 <sup>16</sup>								
4	Dielectric constant	-	ASTM D 150	2.6-3.7								
5	Dissipation Factor	--	IEC 250									
	23° C – 50 Hz											0.002
	23° C – 1 KHz											0.005
	23° C – 1 MHz											0.011
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