

Technical Specification

ARYAPET – A 500

ARYAPET A500 is co extruded heat sealable film, Heat sealable layer is designed to heat seal to itself or APET, CPET, PVC etc suitable for flexible packaging. One side or both heat sealable as per the customer requirement.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (100)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	23.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTMD 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTMD 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTMD1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	400	500	500	500	600	600	
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	4.5	
Surface Treatment level										
1	Heat Sealable side	Dynes/cm	ASTM D 2578	48	48	48	48	48	48	
2	Plain film side	Dynes/cm	ASTM D 2578	42	42	42	42	42	42	
Barrier Properties										
1	W.V.T.R.	gm/m ² /day gm/100in ² /day	ASTM E 96 38°C 90%RH	40 (2.58)	35 (2.25)	26 (1.68)	26. (1.68)	20 (1.29)	15 (1.0)	
2	O.T.R.	cc/m ² /day cc/100in ² /day	ASTM D 3985 23°C 0 %RH	100 (6.5)	95 (6.1)	80 (5.2)	80 (5.2)	70 (4.5)	50 (3.2)	

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.

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.

Technical Specification

ARYAPET – A 504

ARYAPET A504 is co extruded one side heat sealable & other side Antistatic coated polyester film, Heat sealable layer is designed to heat seal to itself or APET , CPET, PVC etc suitable for flexible packaging application.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (92)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	19.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	400	500	500	500	600	600	
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	5.0	
Surface Treatment level										
1	Antistatic side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
2	Heat Sealable Side	Dynes/cm	ASTM D 2578	48	48	48	48	48	48	
Barrier Properties										
1	W.V.T.R. 38°C 90%RH	gm/m ² /day gm/100in ² /day	ASTM E 96	40 2.58	35 2.25	26 1.68	26. 1.68	20 1.29	15 1.0	
2	O.T.R. 23°C 0 %RH	cc/m ² /day cc/100in ² /day	ASTM D 3985	100 6.5	95 6.1	80 5.2	80 5.2	70 4.5	50 3.2	

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.

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.

Technical Specification

ARYAPET – A 506

ARYAPET A506 is co extruded one side heat sealable with low sealing strength & other side Plain polyester film, Heat sealable layer is designed to heat seal to itself or APET, PVC etc suitable for flexible packaging application.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (92)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	19.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	125	125	150	150	175	175	
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	5.0	
Surface Treatment level										
1	Heat Sealable Side	Dynes/cm	ASTM D 2578	48	48	48	48	48	48	
Barrier Properties										
1	W.V.T.R. 38°C 90%RH	gm/m ² /day gm/100in ² /day	ASTM E 96	40 2.58	35 2.25	26 1.68	26 1.68	20 1.29	15 1.0	
2	O.T.R. 23°C 0 %RH	cc/m ² /day cc/100in ² /day	ASTM D 3985	100 6.5	95 6.1	80 5.2	80 5.2	70 4.5	50 3.2	

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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Technical Specification

ARYAPET – A 510

ARYAPET A510 is co extruded one side heat sealable other side corona treated polyester film suitable, Heat sealable layer is designed to heat seal to itself or APET, CPET, PVC etc for flexible packaging application.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (92)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	19.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	400	500	500	500	600	600	
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	5.0	
Surface Treatment level										
1	Heat Sealable side	Dynes/cm	ASTM D 2578	48	48	48	48	48	48	
2	Corona side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
Barrier Properties										
1	W.V.T.R. 38°C 90%RH	gm/m ² /day gm/100in ² /day	ASTM E 96	40 2.58	35 2.25	26 1.68	26. 1.68	20 1.29	15 1.0	
2	O.T.R. 23°C 0 %RH	cc/m ² /day cc/100in ² /day	ASTM D 3985	100 6.5	95 6.1	80 5.2	80 5.2	70 4.5	50 3.2	

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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Technical Specification

ARYAPET – A 514

ARYAPET A514 is co extruded Antistatic coated on heat sealable side & other side corona treated polyester film, Heat sealable layer is designed to heat seal to itself or APET, CPET, PVC etc suitable for flexible packaging application.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (92)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	19.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	400	500	500	500	600	600	
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	5.0	
Surface Treatment level										
1	Antistatic side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
2	Corona side	Dynes/cm	ASTM D 2578	52	52	52	52	52	52	
Barrier Properties										
1	W.V.T.R. 38°C 90%RH	gm/m ² /day gm/100in ² /day	ASTM E 96	40 2.58	35 2.25	26 1.68	26. 1.68	20 1.29	15 1.0	
2	O.T.R. 23°C 0 %RH	cc/m ² /day cc/100in ² /day	ASTM D 3985	100 6.5	95 6.1	80 5.2	80 5.2	70 4.5	50 3.2	

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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Technical Specification

ARYAPET – A 516

ARYAPET A516 is co extruded one side heat sealable with low sealing strength & other side corona treated polyester film, Heat sealable layer is designed to heat seal to itself or APET, PVC etc suitable for flexible packaging application.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (92)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	19.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	125	125	150	150	175	175	
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	5.0	
Surface Treatment level										
1	Heat Sealable Side	Dynes/cm	ASTM D 2578	48	48	48	48	48	48	
2	Corona treated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
Barrier Properties										
1	W.V.T.R. 38°C 90%RH	gm/m ² /day gm/100in ² /day	ASTM E 96	40 2.58	35 2.25	26 1.68	26. 1.68	20 1.29	15 1.0	
2	O.T.R. 23°C 0 %RH	cc/m ² /day cc/100in ² /day	ASTM D 3985	100 6.5	95 6.1	80 5.2	80 5.2	70 4.5	50 3.2	

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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Technical Specification

ARYAPET – A 520

ARYAPET A520 is co extruded one side heat sealable other side co-polymer based chemically coated polyester film, Heat sealable layer is designed to heat seal to itself or APET, CPET, PVC etc suitable for flexible packaging application.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (92)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	19.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	400	500	500	500	600	600	
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	5.0	
Surface Treatment level										
1	Heat Sealable side	Dynes/cm	ASTM D 2578	48	48	48	48	48	48	
2	Coated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
Barrier Properties										
1	W.V.T.R. 38°C 90%RH	gm/m ² /day gm/100in ² /day	ASTM E 96	40 2.58	35 2.25	26 1.68	26. 1.68	20 1.29	15 1.0	
2	O.T.R. 23°C 0 %RH	cc/m ² /day cc/100in ² /day	ASTM D 3985	100 6.5	95 6.1	80 5.2	80 5.2	70 4.5	50 3.2	

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.

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.

Technical Specification

ARYAPET – A 531

ARYAPET A531 is co extruded one side heat sealable other side Acrylic coated polyester film, Heat sealable layer is designed to heat seal to itself or APET, CPET, PVC etc suitable for flexible packaging application.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (92)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	19.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	400	500	500	500	600	600	
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	5.0	
Surface Treatment level										
1	Heat Sealable side	Dynes/cm	ASTM D 2578	48	48	48	48	48	48	
2	Acrylic side	Dynes/cm	ASTM D 2578	38	38	38	38	38	38	
Barrier Properties										
1	W.V.T.R. 38°C 90%RH	gm/m ² /day gm/100in ² /day	ASTM E 96	40 2.58	35 2.25	26 1.68	26 1.68	20 1.29	15 1.0	
2	O.T.R. 23°C 0 %RH	cc/m ² /day cc/100in ² /day	ASTM D 3985	100 6.5	95 6.1	80 5.2	80 5.2	70 4.5	50 3.2	

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.

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.

Technical Specification

ARYAPET – A 544

ARYAPET A544 is co extruded one side heat sealable with both side antistatic coated polyester film, Heat sealable layer is designed to heat seal to itself or APET, PVC etc suitable for flexible packaging application.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (92)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	19.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	400	500	500	500	600	600	
Thermal										
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	5.0	
Surface Treatment level										
1	Both side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
Barrier Properties										
1	W.V.T.R. 38°C 90%RH	gm/m ² /day gm/100in ² /day	ASTM E 96	40 2.58	35 2.25	26 1.68	26 1.68	20 1.29	15 1.0	
2	O.T.R. 23°C 0 %RH	cc/m ² /day cc/100in ² /day	ASTM D 3985	100 6.5	95 6.1	80 5.2	80 5.2	70 4.5	50 3.2	

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.

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.

Technical Specification

ARYAPET – A 550

ARYAPET A550 is co extruded heat sealable film with high sealing strength, Heat sealable layer is designed to heat seal to itself or APET , CPET, PVC etc suitable for flexible packaging. One side or both heat sealable as per the customer requirement.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (92)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	23.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTMD 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTMD 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTMD1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	600	600	800	1000	1200	1200	
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	4.5	
Surface Treatment level										
1	Heat Sealable side	Dynes/cm	ASTM D 2578	48	48	48	48	48	48	
2	Plain film side	Dynes/cm	ASTM D 2578	42	42	42	42	42	42	
Barrier Properties										
1	W.V.T.R.	gm/m ² /day gm/100in ² /day	ASTM E 96 38°C 90%RH	40 (2.58)	35 (2.25)	26 (1.68)	26. (1.68)	20 (1.29)	15 (1.0)	
2	O.T.R.	cc/m ² /day cc/100in ² /day	ASTM D 3985 23°C 0 %RH	100 (6.5)	95 (6.1)	80 (5.2)	80 (5.2)	70 (4.5)	50 (3.2)	

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.

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.

Technical Specification

ARYAPET – A 551

ARYAPET A551 is co extruded one side heat sealable film with high sealing strength & Other side corona treated polyester film , Heat sealable layer is designed to heat seal to itself or APET , CPET, PVC etc suitable for flexible packaging.

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	20 (80)	25 (92)	30 (120)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	35.7	28.6	23.8	23.8	
3	Density	gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4	1.4	
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTMD 882	1800 (25.6)	1800 (25.5)	1700 (24.1)	1700 (24.1)	1700 (24.1)	1700 (24.1)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTMD 882	100	100	100	100	100	100
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTMD1894	0.60	0.60	0.55	0.55	0.55	0.55
		Dynamic			0.55	0.55	0.50	0.50	0.50	0.50
Heat Sealing										
1	Seal Strength (Seal To Seal)@ 120°C,2S & 3Bar	gm /25mm	JBF Method	600	600	800	1000	1200	1200	
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4	0.4
Optical										
1	Haze	%	ASTM D 1003	3.5	3.5	3.5	4.0	4.5	4.5	
Surface Treatment level										
1	Heat Sealable side	Dynes/cm	ASTM D 2578	48	48	48	48	48	48	
2	Corona side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
Barrier Properties										
1	W.V.T.R.	gm/m ² /day gm/100in ² /day	ASTM E 96 38°C 90%RH	40 (2.58)	35 (2.25)	26 (1.68)	26. (1.68)	20 (1.29)	15 (1.0)	
2	O.T.R.	cc/m ² /day cc/100in ² /day	ASTM D 3985 23°C 0 %RH	100 (6.5)	95 (6.1)	80 (5.2)	80 (5.2)	70 (4.5)	50 (3.2)	

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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Technical Specification

ARYAPET – A 571

ARYAPET A571 is co extruded amorphous polyester film with heat seal layer and anti fog on heat sealable side other side Corona Treated. Heat sealable layer is designed to heat seal to itself or APET ,CPET, PETG, , POLYESTER COATED BOARDS, and PVC.This film is specifically designed to minimize “fog” during freezing, chilling and cooking operations for lidding and flexible packaging applications.

Sr. No.	Properties	Unit	Test Method	Typical Values		
General						
1	Thickness	Micron (Gauge)	JBF Method	20 (80)	30 (120)	
2	Yield	M ² /Kg	JBF Method	35.7	23.8	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	
Mechanical						
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	1700 (24.1)	1700 (24.1)
		TD			1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100
		TD			100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.30	0.30
		Dynamic			0.25	0.25
Thermal						
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0
		TD			0.4	0.4
2	Sealing temperature range	°c	JBF Method	140 to 200	140 to 200	
3	Seal Strength (Seal To Seal)@ 140°C,1S & 4Bar	gm /25mm	JBF Method	800	800	
Optical						
1	Haze	%	ASTM D 1003	3.5	4.5	
Surface Treatment level						
1	Coated side	Dynes/cm	ASTM D 2578	60	60	
2	Corona side	Dynes/cm	ASTM D 2578	56	56	
Barrier Properties						
1	W.V.T.R.	gm/m ² /day	ASTM E 96	26	20	
		gm/100in ² /day	380C 90%RH	1.68	1.29	
2	O.T.R.	cc/m ² /day	ASTM D 3985	80	70	
		cc/100in ² /day	230C 0 %RH	5.2	4.5	

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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Technical Specification

ARYAPET – A 574

ARYAPET A574 is co extruded amorphous polyester film with heat seal layer and anti fog on heat sealable side. Heat sealable layer is designed to heat seal to itself or APET ,CPET, PETG, , POLYESTER COATED BOARDS, and PVC.This film is specifically designed to minimize “fog” during freezing, chilling and cooking operations for lidding and flexible packaging applications.

Sr. No.	Properties	Unit	Test Method	Typical Values		
General						
1	Thickness	Micron (Gauge)	JBF Method	20 (80)	30 (120)	
2	Yield	M ² /Kg	JBF Method	35.7	23.8	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	
Mechanical						
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	1700 (24.1)	1700 (24.1)
		TD			1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100
		TD			100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.30	0.30
		Dynamic			0.25	0.25
Thermal						
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0
		TD			0.4	0.4
2	Sealing temperature range	°c	JBF Method	140 to 200	140 to 200	
3	Seal Strength (Seal To Seal)@ 140°C,1S & 4Bar	gm /25mm	JBF Method	800	800	
Optical						
1	Haze	%	ASTM D 1003	3.5	4.5	
Barrier Properties						
1	W.V.T.R.	gm/m2/day	ASTM E 96	26	20	
		gm/100in2/day	380C 90%RH	1.68	1.29	
2	O.T.R.	cc/m2/day	ASTM D 3985	80	70	
		cc/100in2/day	230C 0 %RH	5.2	4.5	

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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Technical Specification

ARYAPET – A600

ARYAPET A600 is a Milky White polyester film suitable as an insulating material for rotating electrical machines. It has superior thermal properties as compared with normal polyester film.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	36 (144)	50 (200)	75 (300)	100 400	125 500	
2	Yield	M ² /Kg	JBF Method	19.8	14.3	9.5	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
4	Water Absorption	%	ASTM D 570	0.55	0.55	0.55	0.55	0.55	
5	Oligomer Extraction	%	JBF Method	1.3	1.3	1.3	1.3	1.3	
6	Service Temp	°C	JBF Method	-70 to 150					
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	2000 (28.4)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)
		TD			2100 (29.8)	2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	110	110	120
		TD			100	100	100	100	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.45	0.45
		Dynamic			0.45	0.40	0.40	0.40	0.40
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.4	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	
3	Specific Heat @ 25° C	Cal/g°C	-	0.32	0.32	0.32	0.32	0.32	
4	Coeff of Thermal Expansion Between 20° C & 25° C	1/k/cm/cm°C	-	MD- 36 X 10 ⁻⁶ TD -36 X 10 ⁻⁶					
Optical									
1	Haze	%	ASTM D 1003	50	55	60	70	80	
Electrical									
1	Break Down Voltage	KV	ASTM D 149	7.5	9.5	12.5	14.5	17	
2	Surface Resistivity	Ohm	ASTM D 257	10 ¹²					
3	Volume Resistivity @ RT	Ohm cm	ASTM D 257	10 ¹⁶					

4	Dielectric Constant	-	ASTM D 150	2.6-3.7	
5	Dissipation Factor	--	IEC 250	23 ⁰ C – 50 Hz	0.002
	23 ⁰ C – 1 KHz			0.005	
	23 ⁰ C – 1 MHz			0.011	
	0 ⁰ C – 50 Hz			0.004	
	50 ⁰ C – 50 Hz			0.0015	
	100 ⁰ C – 50 Hz			0.007	
	150 ⁰ C – 50 Hz			0.006	
6	Permittivity	--	IEC 250	23 ⁰ C – 50 Hz	3.26
	23 ⁰ C – 1 KHz			3.24	
	23 ⁰ C – 1 KHz			3.21	
	0 ⁰ C – 50 Hz			3.26	
	50 ⁰ C – 50 Hz			3.27	
	100 ⁰ C – 50 Hz			3.35	
	150 ⁰ C – 50 Hz			3.65	
Chemical Resistance					
1	Dilute acids and Alkalis			Good	
2	Concentrated Alkalis			Poor	
3	Concentrated HCL			Fair	
4	Concentrated H ₂ SO ₄			Poor	
5	Greases , Oils & Fats			Good	
6	Organic Solvents, Alcohols & Hydrocarbons			Good	
7	Ketones , Esters & Chlorinated compounds			Fairly Good	
8	Phenols, Cresols & Chlorinated phenols			Poor	

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

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Technical Specification

ARYAPET – A600

ARYAPET A600 is a Milky White polyester film suitable as an insulating material for rotating electrical machines. It has superior thermal properties as compared with normal polyester film.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	190 (760)	225 (900)	250 (1000)	300 (1200)	350 (1400)	
2	Yield	M ² /Kg	JBF Method	3.76	3.17	2.86	2.38	2.04	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
4	Water Absorption	%	ASTM D 570	0.55	0.55	0.55	0.55	0.55	
5	Oligomer Extraction	%	JBF Method	1.3	1.3	1.3	1.3	1.3	
6	Service Temp	°C	JBF Method	-70 to 150					
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	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)	1800 (25.6)	1800 (25.6)
2	Elongation at break	MD	%	ASTM D 882	120	130	130	140	140
		TD			110	120	120	125	125
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.2	1.2	1.2	1.2	1.2
		TD			0.4	0.4	0.4	0.4	0.4
3	Melting Point	°C	DSC	255	255	255	255	255	
4	Specific Heat @ 25° C	Cal/g/°C	-	0.32	0.32	0.32	0.32	0.32	
5	Coeff of Thermal Expansion Between 20° C & 25° C	1/k/cm/c m° C	-	MD- 36 X 10 ⁻⁶ TD -36 X 10 ⁻⁶					
Optical									
1	Haze	%	ASTM D 1003	86	90	93	94	96	
Electrical									
1	Break Down Voltage	KV	ASTM D 149	20	21	22	24	26	
2	Surface Resistivity	Ohm	ASTM D 257	10 ¹²					
3	Volume Resistivity @ RT	Ohm cm	ASTM D 257	10 ¹⁶					

4	Dielectric Constant	-	ASTM D 150	2.6-3.7
5	Dissipation Factor	--	IEC 250	0.002
	23 ⁰ C – 50 Hz			0.005
	23 ⁰ C – 1 KHz			0.011
	23 ⁰ C – 1 MHz			0.004
	0 ⁰ C – 50 Hz			0.0015
	50 ⁰ C – 50 Hz			0.007
	100 ⁰ C – 50 Hz			0.006
6	Permittivity	--	IEC 250	3.26
	23 ⁰ C – 50 Hz			3.24
	23 ⁰ C – 1 KHz			3.21
	23 ⁰ C – 1 KHz			3.26
	0 ⁰ C – 50 Hz			3.27
	50 ⁰ C – 50 Hz			3.35
	100 ⁰ C – 50 Hz			3.65
Chemical Resistance				
1	Dilute acids and Alkalis			Good
2	Concentrated Alkalis			Poor
3	Concentrated HCL			Fair
4	Concentrated H ₂ SO ₄			Poor
5	Greases , Oils & Fats			Good
6	Organic Solvents, Alcohols & Hydrocarbons			Good
7	Ketones , Esters & Chlorinated compounds			Fairly Good
8	Phenols, Cresols & Chlorinated phenols			Poor

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

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Technical Specification

ARYAPET – A622

ARYAPET A622 is a Milky White polyester film with one side or both side acrylic coated films suitable as an insulating material for rotating electrical machines. It has superior thermal properties as compared with normal polyester film.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	36 (144)	50 (200)	75 (300)	100 400	125 500	
2	Yield	M ² /Kg	JBF Method	19.8	14.3	9.5	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
4	Water Absorption	%	ASTM D 570	0.55	0.55	0.55	0.55	0.55	
5	Oligomer Extraction	%	JBF Method	1.3	1.3	1.3	1.3	1.3	
6	Service Temp	°C	JBF Method	-70 to 150					
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	2000 (28.4)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)
		TD			2100 (29.8)	2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	110	110	120
		TD			100	100	100	100	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.45	0.45
		Dynamic			0.45	0.40	0.40	0.40	0.40
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.4	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	
3	Specific Heat @ 25° C	Cal/g°C	-	0.32	0.32	0.32	0.32	0.32	
4	Coeff of Thermal Expansion Between 200 C & 250 C	1/k/cm/cm°C	-	MD- 36 X 10 ⁻⁶ TD -36 X 10 ⁻⁶					
Optical									
1	Haze	%	ASTM D 1003	50	55	60	70	80	
Surface Treatment level									
1	Surface Tension	Dyne/cm	ASTM D 2578	40	40	40	40	40	
Electrical									
1	Break Down Voltage	KV	ASTM D 149	7.5	9.5	12.5	14.0	17	
2	Surface Resistivity	Ohm	ASTM D 257	10 ¹²					
3	Volume Resistivity @ RT	Ohm cm	ASTM D 257	10 ¹⁶					

4	Dielectric Constant	-	ASTM D 150	2.6-3.7	
5	Dissipation Factor	--	IEC 250	23 ⁰ C – 50 Hz	0.002
	23 ⁰ C – 1 KHz			0.005	
	23 ⁰ C – 1 MHz			0.011	
	0 ⁰ C – 50 Hz			0.004	
	50 ⁰ C – 50 Hz			0.0015	
	100 ⁰ C – 50 Hz			0.007	
	150 ⁰ C – 50 Hz			0.006	
6	Permittivity	--	IEC 250	23 ⁰ C – 50 Hz	3.26
	23 ⁰ C – 1 KHz			3.24	
	23 ⁰ C – 1 KHz			3.21	
	0 ⁰ C – 50 Hz			3.26	
	50 ⁰ C – 50 Hz			3.27	
	100 ⁰ C – 50 Hz			3.35	
	150 ⁰ C – 50 Hz			3.65	
Chemical Resistance					
1	Dilute acids and Alkalis			Good	
2	Concentrated Alkalis			Poor	
3	Concentrated HCL			Fair	
4	Concentrated H ₂ SO ₄			Poor	
5	Greases , Oils & Fats			Good	
6	Organic Solvents, Alcohols & Hydrocarbons			Good	
7	Ketones , Esters & Chlorinated compounds			Fairly Good	
8	Phenols, Cresols & Chlorinated phenols			Poor	

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

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Technical Specification

ARYAPET – A622

ARYAPET A622 is a Milky White polyester film with one side or both side acrylic coated films suitable as an insulating material for rotating electrical machines. It has superior thermal properties as compared with normal polyester film.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	190 (760)	225 (900)	250 (1000)	300 (1200)	350 (1400)	
2	Yield	M ² /Kg	JBF Method	3.76	3.17	2.86	2.38	2.04	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
4	Water Absorption	%	ASTM D 570	0.55	0.55	0.55	0.55	0.55	
5	Oligomer Extraction	%	JBF Method	1.3	1.3	1.3	1.3	1.3	
6	Service Temp	°C	JBF Method	-70 to 150					
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	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)	1800 (25.6)	1800 (25.6)
2	Elongation at break	MD	%	ASTM D 882	120	130	130	140	140
		TD			110	120	120	125	125
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.2	1.2	1.2	1.2	1.2
		TD			0.4	0.4	0.4	0.4	0.4
3	Melting Point	°C	DSC	255	255	255	255	255	
4	Specific Heat @ 25° C	Cal/g°C	-	0.32	0.32	0.32	0.32	0.32	
5	Coeff of Thermal Expansion Between 200 C &250 C	1/k/cm/c m°C	-	MD- 36 X 10 ⁻⁶ TD -36 X 10 ⁻⁶					
Optical									
1	Haze	%	ASTM D 1003	86	90	93	94	96	
Surface Treatment level									
1	Surface Tension	Dyne/cm	ASTM D 2578	40	40	40	40	40	
Electrical									
1	Break Down Voltage	KV	ASTM D 149	20	21	22	24	26	
2	Surface Resistivity	Ohm	ASTM D 257	10 ¹²					

3	Volume Resistivity @ RT	Ohm cm	ASTM D 257	10 ¹⁶
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4	Dielectric Constant	-	ASTM D 150	2.6-3.7
5	Dissipation Factor	--	IEC 250	
	23 ⁰ C – 50 Hz			0.002
	23 ⁰ C – 1 KHz			0.005
	23 ⁰ C – 1 MHz			0.011
	0 ⁰ C – 50 Hz			0.004
	50 ⁰ C – 50 Hz			0.0015
	100 ⁰ C – 50 Hz			0.007
6	Permittivity	--	IEC 250	
	23 ⁰ C – 50 Hz			3.26
	23 ⁰ C – 1 KHz			3.24
	23 ⁰ C – 1 KHz			3.21
	0 ⁰ C – 50 Hz			3.26
	50 ⁰ C – 50 Hz			3.27
	100 ⁰ C – 50 Hz			3.35
150 ⁰ C – 50 Hz	3.65			

Chemical Resistance				
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1	Dilute acids and Alkalis			Good
2	Concentrated Alkalis			Poor
3	Concentrated HCL			Fair
4	Concentrated H ₂ SO ₄			Poor
5	Greases , Oils & Fats			Good
6	Organic Solvents, Alcohols & Hydrocarbons			Good
7	Ketones , Esters & Chlorinated compounds			Fairly Good
8	Phenols, Cresols & Chlorinated phenols			Poor

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

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Technical Specification

ARYAPET – A623

ARYAPET A623 is a Milky White polyester film with one or both side anchor coated suitable as an insulating material for rotating electrical machines. It has superior thermal properties as compared with normal polyester film.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	36 (144)	50 (200)	75 (300)	100 400	125 500	
2	Yield	M ² /Kg	JBF Method	19.8	14.3	9.5	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
4	Water Absorption	%	ASTM D 570	0.55	0.55	0.55	0.55	0.55	
5	Oligomer Extraction	%	JBF Method	1.3	1.3	1.3	1.3	1.3	
6	Service Temp	°C	JBF Method	-70 to 150					
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	2000 (28.4)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)
		TD			2100 (29.8)	2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	110	110	120
		TD			100	100	100	100	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.45	0.45
		Dynamic			0.45	0.40	0.40	0.40	0.40
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.4	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	
3	Specific Heat @ 25° C	Cal/g/°C	-	0.32	0.32	0.32	0.32	0.32	
4	Coeff of Thermal Expansion Between 20° C & 25° C	1/k/cm/cm° C	-	MD- 36 X 10 ⁻⁶ TD -36 X 10 ⁻⁶					
Optical									
1	Haze	%	ASTM D 1003	50	55	60	70	80	
Surface treatment level									
1	Coated side	Dyne/cm	ASTM 2578	56	56	56	56	56	
Electrical									
1	Break Down Voltage	KV	ASTM D 149	7.5	9.5	12.5	14.5	17	

2	Surface Resistivity	Ohm	ASTM D 257	10 ¹²
3	Volume Resistivity @ RT	Ohm cm	ASTM D 257	10 ¹⁶
4	Dielectric Constant	-	ASTM D 150	2.6-3.7
5	Dissipation Factor	--	IEC 250	
	23 ⁰ C – 50 Hz			0.002
	23 ⁰ C – 1 KHz			0.005
	23 ⁰ C – 1 MHz			0.011
	0 ⁰ C – 50 Hz			0.004
	50 ⁰ C – 50 Hz			0.0015
	100 ⁰ C – 50 Hz			0.007
6	Permittivity	--	IEC 250	
	23 ⁰ C – 50 Hz			3.26
	23 ⁰ C – 1 KHz			3.24
	23 ⁰ C – 1 KHz			3.21
	0 ⁰ C – 50 Hz			3.26
	50 ⁰ C – 50 Hz			3.27
	100 ⁰ C – 50 Hz			3.35
150 ⁰ C – 50 Hz	3.65			
Chemical Resistance				
1	Dilute acids and Alkalis			Good
2	Concentrated Alkalis			Poor
3	Concentrated HCL			Fair
4	Concentrated H ₂ SO ₄			Poor
5	Greases , Oils & Fats			Good
6	Organic Solvents, Alcohols & Hydrocarbons			Good
7	Ketones , Esters & Chlorinated compounds			Fairly Good
8	Phenols, Cresols & Chlorinated phenols			Poor

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

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Technical Specification

ARYAPET – A623

ARYAPET A623 is a Milky White polyester film with one or both side anchor coated suitable as an insulating material for rotating electrical machines. It has superior thermal properties as compared with normal polyester film.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	190 (760)	225 (900)	250 (1000)	300 (1200)	350 (1400)	
2	Yield	M ² /Kg	JBF Method	3.76	3.17	2.86	2.38	2.04	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
4	Water Absorption	%	ASTM D 570	0.55	0.55	0.55	0.55	0.55	
5	Oligomer Extraction	%	JBF Method	1.3	1.3	1.3	1.3	1.3	
6	Service Temp	°C	JBF Method	-70 to 150					
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	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)	1800 (25.6)	1800 (25.6)
2	Elongation at break	MD	%	ASTM D 882	120	130	130	140	140
		TD			110	120	120	125	125
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.2	1.2	1.2	1.2	1.2
		TD			0.4	0.4	0.4	0.4	0.4
3	Melting Point	°C	DSC	255	255	255	255	255	
4	Specific Heat @ 25° C	Cal/g/°C	-	0.32	0.32	0.32	0.32	0.32	
5	Coeff of Thermal Expansion Between 20° C & 25° C	1/k/cm/c m° C	-	MD- 36 X 10 ⁻⁶ TD -36 X 10 ⁻⁶					
Optical									
1	Haze	%	ASTM D 1003	86	90	93	94	96	
Surface treatment level									
1	Coated side	Dyne/cm	ASTM D 2578	56	56	56	56	56	
Electrical									
1	Break Down Voltage	KV	ASTM D 149	20	21	22	24	26	
2	Surface Resistivity	Ohm	ASTM D 257	10 ¹²					

3	Volume Resistivity @ RT	Ohm cm	ASTM D 257	10 ¹⁶
4	Dielectric Constant	-	ASTM D 150	2.6-3.7
5	Dissipation Factor	--	IEC 250	
	23 ⁰ C – 50 Hz			0.002
	23 ⁰ C – 1 KHz			0.005
	23 ⁰ C – 1 MHz			0.011
	0 ⁰ C – 50 Hz			0.004
	50 ⁰ C – 50 Hz			0.0015
	100 ⁰ C – 50 Hz			0.007
6	Permittivity	--	IEC 250	
	23 ⁰ C – 50 Hz			3.26
	23 ⁰ C – 1 KHz			3.24
	23 ⁰ C – 1 KHz			3.21
	0 ⁰ C – 50 Hz			3.26
	50 ⁰ C – 50 Hz			3.27
	100 ⁰ C – 50 Hz			3.35
150 ⁰ C – 50 Hz	3.65			

Chemical Resistance

1	Dilute acids and Alkalis			Good
2	Concentrated Alkalis			Poor
3	Concentrated HCL			Fair
4	Concentrated H ₂ SO ₄			Poor
5	Greases , Oils & Fats			Good
6	Organic Solvents, Alcohols & Hydrocarbons			Good
7	Ketones , Esters & Chlorinated compounds			Fairly Good
8	Phenols, Cresols & Chlorinated phenols			Poor

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Storage & Handling

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Technical Specification

ARYAPET – A627

ARYAPET A627 is a Milky White polyester film with one or both side chemically pretreated It is designed for printing and polyethylene adhesion and other industrial applications.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	36 (144)	50 (200)	75 (300)	100 400	125 500	
2	Yield	M ² /Kg	JBF Method	19.8	14.3	9.5	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
4	Water Absorption	%	ASTM D 570	0.55	0.55	0.55	0.55	0.55	
5	Oligomer Extraction	%	JBF Method	1.3	1.3	1.3	1.3	1.3	
6	Service Temp	°C	JBF Method	-70 to 150					
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	2000 (28.4)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)
		TD			2100 (29.8)	2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	110	110	120
		TD			100	100	100	100	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.45	0.45
		Dynamic			0.45	0.40	0.40	0.40	0.40
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.4	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	
3	Specific Heat @ 25° C	Cal/g°C	-	0.32	0.32	0.32	0.32	0.32	
4	Coeff of Thermal Expansion Between 20° C & 25° C	1/k/cm/cm°C	-	MD- 36 X 10 ⁻⁶ TD -36 X 10 ⁻⁶					
Optical									
1	Haze	%	ASTM D 1003	50	55	60	70	80	
Surface treatment level									
1	Chemically pretreated side	Dyne/cm	ASTM 2578	40	40	40	40	40	
Electrical									
1	Break Down Voltage	KV	ASTM D 149	7.5	9.5	12.5	14.5	17	
2	Surface Resistivity	Ohm	ASTM D 257	10 ¹²					

3	Volume Resistivity @ RT	Ohm cm	ASTM D 257	10 ¹⁶
4	Dielectric Constant	-	ASTM D 150	2.6-3.7
5	Dissipation Factor	--	IEC 250	
	23 ⁰ C – 50 Hz			0.002
	23 ⁰ C – 1 KHz			0.005
	23 ⁰ C – 1 MHz			0.011
	0 ⁰ C – 50 Hz			0.004
	50 ⁰ C – 50 Hz			0.0015
	100 ⁰ C – 50 Hz			0.007
6	Permittivity	--	IEC 250	
	23 ⁰ C – 50 Hz			3.26
	23 ⁰ C – 1 KHz			3.24
	23 ⁰ C – 1 KHz			3.21
	0 ⁰ C – 50 Hz			3.26
	50 ⁰ C – 50 Hz			3.27
	100 ⁰ C – 50 Hz			3.35
150 ⁰ C – 50 Hz	3.65			
Chemical Resistance				
1	Dilute acids and Alkalis			Good
2	Concentrated Alkalis			Poor
3	Concentrated HCL			Fair
4	Concentrated H ₂ SO ₄			Poor
5	Greases , Oils & Fats			Good
6	Organic Solvents, Alcohols & Hydrocarbons			Good
7	Ketones , Esters & Chlorinated compounds			Fairly Good
8	Phenols, Cresols & Chlorinated phenols			Poor

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

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Technical Specification

ARYAPET – A627

ARYAPET A627 is a Milky White polyester film with one or both side chemically pretreated It is designed for printing and polyethylene adhesion and other industrial applications.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	190 (760)	225 (900)	250 (1000)	300 (1200)	350 (1400)	
2	Yield	M ² /Kg	JBF Method	3.76	3.17	2.86	2.38	2.04	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
4	Water Absorption	%	ASTM D 570	0.55	0.55	0.55	0.55	0.55	
5	Oligomer Extraction	%	JBF Method	1.3	1.3	1.3	1.3	1.3	
6	Service Temp	°C	JBF Method	-70 to 150					
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	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)	1800 (25.6)	1800 (25.6)
2	Elongation at break	MD	%	ASTM D 882	120	130	130	140	140
		TD			110	120	120	125	125
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.2	1.2	1.2	1.2	1.2
		TD			0.4	0.4	0.4	0.4	0.4
3	Melting Point	°C	DSC	255	255	255	255	255	
4	Specific Heat @ 25° C	Cal/g/°C	-	0.32	0.32	0.32	0.32	0.32	
5	Coeff of Thermal Expansion Between 20° C & 25° C	1/k/cm/c m° C	-	MD- 36 X 10 ⁻⁶ TD -36 X 10 ⁻⁶					
Optical									
1	Haze	%	ASTM D 1003	86	90	93	94	96	
Surface treatment level									
1	Chemically pretreated side	Dyne/cm	ASTM D 2578	40	40	40	40	40	
Electrical									
1	Break Down Voltage	KV	ASTM D 149	20	21	22	24	26	
2	Surface Resistivity	Ohm	ASTM D 257	10 ¹²					
3	Volume Resistivity @ RT	Ohm cm	ASTM D 257	10 ¹⁶					

4	Dielectric Constant	-	ASTM D 150	2.6-3.7
5	Dissipation Factor	--	IEC 250	
	23 ⁰ C – 50 Hz			0.002
	23 ⁰ C – 1 KHz			0.005
	23 ⁰ C – 1 MHz			0.011
	0 ⁰ C – 50 Hz			0.004
	50 ⁰ C – 50 Hz			0.0015
	100 ⁰ C – 50 Hz			0.007
6	Permittivity	--	IEC 250	
	23 ⁰ C – 50 Hz			3.26
	23 ⁰ C – 1 KHz			3.24
	23 ⁰ C – 1 KHz			3.21
	0 ⁰ C – 50 Hz			3.26
	50 ⁰ C – 50 Hz			3.27
	100 ⁰ C – 50 Hz			3.35
	150 ⁰ C – 50 Hz	3.65		
Chemical Resistance				
1	Dilute acids and Alkalis			Good
2	Concentrated Alkalis			Poor
3	Concentrated HCL			Fair
4	Concentrated H ₂ SO ₄			Poor
5	Greases , Oils & Fats			Good
6	Organic Solvents, Alcohols & Hydrocarbons			Good
7	Ketones , Esters & Chlorinated compounds			Fairly Good
8	Phenols, Cresols & Chlorinated phenols			Poor

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

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Technical Specification

ARYAPET – A643

ARYAPET A643 is Milky White polyester film suitable for twist wrap application. One side Corona treated film can be supplied depending on the requirement from the customer.

Sr. No.	Properties	Unit	Test Method	Typical Values	
General					
1	Thickness	Micron (Gauge)	JBF Method	23 (92)	
2	Yield	M ² /Kg	JBF Method	31.1	
3	Density	gm/cc	ASTM D 1505	1.4	
Mechanical					
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	2000 (28.4)
		TD			2100 (29.8)
2	Elongation at break	MD	%	ASTM D 882	110
		TD			100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.50
		Dynamic			0.45
Thermal					
1	Shrinkage @ 150 ⁰ C/30'	MD	%	ASTM D 1204	35
		TD			35
2	Melting Point	⁰ C	DSC	255	
Optical					
1	Haze	%	ASTM D 1003	75.0	
Surface Treatment level					
1	Treatment side	Dynes/cm	ASM D 2578	56	
2	Plain side			44	
Barrier					
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day (gm/100in ² /day)	ASTM E 96	22 (1.4)	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day (cc/100in ² /day)	ASTM D 3985	70 (4.5)	

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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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Technical Specification

ARYAPET – A660

ARYAPET A 660 is a white polyester film having both surfaces semi matt, excellent superior gloss, high opacity and good handling property, suitable for electrical insulation and other Industrial applications.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	36 (144)	50 (200)	75 (300)	100 400	125 500	
2	Yield	M ² /Kg	JBF Method	19.8	14.3	9.5	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	1.40	1.40	1.40	1.40	1.40	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	2000 (19.9)	2000 (19.9)	1900 (19.9)	1900 (19.9)	1900 (19.9)
		TD			2100 (21.3)	2100 (21.3)	2000 (21.3)	2000 (21.3)	2000 (21.3)
2	Elongation at break	MD	%	ASTM D 882	110	110	110	110	110
		TD			100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.40	0.40
		Dynamic			0.35	0.35	0.35	0.35	0.35
Thermal									
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	2.0	2.0	1.6	1.6	1.6
		TD			0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	
Optical									
1	Whiteness Index	%	ASTM D 313	100	100	100	100	100	
2	Total Transmittance	%	ASTM D 1003	40	40	35	30	30	
3	Gloss @45 ^o	%	ASTM D 2457	80	80	75	70	65	
Electrical									
1	Surface Resistivity	Ohm	ASTM D 257	>10 ¹³					
2	Volume Resistivity	Ohm cm	ASTM D 257	10 ¹⁶					
3	Break down voltage	KV	ASTM D 149	7.5	9.5	12.5	14.0	15.0	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

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Technical Specification

ARYAPET – A660

ARYAPET A 660 is a white polyester film having both surfaces semi matt, excellent superior gloss, high opacity and good handling property, suitable for electrical insulation and other Industrial applications.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	190 (760)	225 (900)	250 (1000)	300 (1200)	350 (1400)	
2	Yield	M ² /Kg	JBF Method	3.76	3.17	2.86	2.38	2.04	
3	Density	gm/cc	ASTM D 1505	1.40	1.40	1.40	1.40	1.40	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	1800 (19.9)	1700 (19.9)	1700 (19.9)	1700 (19.9)	1700 (19.9)
		TD			1800 (21.3)	1800 (21.3)	1800 (21.3)	1800 (21.3)	1800 (21.3)
2	Elongation at break	MD	%	ASTM D 882	120	130	130	140	140
		TD			100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.40	0.40
		Dynamic			0.35	0.35	0.35	0.35	0.35
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.6	1.6	1.6	1.6	1.6
		TD			0.4	0.4	0.4	0.4	0.4
3	Melting Point	°C	DSC	255	255	255	255	255	
Optical									
1	Whiteness Index	%	ASTM D 313	100	100	100	100	100	
2	Total Transmittance	%	ASTM D 1003	35	30	30	30	30	
3	Gloss @45°	%	ASTM D 2457	65	60	60	60	60	
Electrical									
1	Surface Resistivity	Ohm	ASTM D 257	10 ¹³					
2	Volume Resistivity	Ohm cm	ASTM D 257	10 ¹⁶					
3	Break down voltage	KV	ASTM D 149	19	21	22	24	26	

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Storage & Handling

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Technical Specification

ARYAPET – A700

ARYAPET A 700 is a white opaque polyester film having smooth surface, excellent superior gloss, high opacity and good handling property, suitable for label printing, photographic printing, coating and other general applications.

Sr. No	Properties	Unit	Test Method	Typical Value							
General											
1	Thickness	Micron (Gauge)	JBF Method	23 (92)	36 (144)	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	
2	Yield	M ² /Kg	JBF Method	30.0	19.15	13.8	9.2	6.9	5.5	3.9	
3	Density	gm/cc	ASTM D 1505	1.45	1.45	1.45	1.45	1.45	1.45	1.45	
Mechanical											
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	1600 (25.6)	1600 (25.6)	1600 (25.6)	1500 (21.3)	1500 (21.3)	1500 (21.3)	1500 (21.3)
		TD			1600 (25.6)	1600 (25.6)	1600 (25.6)	1500 (21.3)	1500 (21.3)	1500 (21.3)	1500 (21.3)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100	100
		TD			100	100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.40	0.40	0.40	0.40
		Dynamic			0.35	0.35	0.35	0.35	0.35	0.35	0.35
Thermal											
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.8	1.8	1.6	1.6	1.6	1.4	1.4
		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	
Optical											
1	Whiteness Index	%	ASTM D 313	100	100	100	100	100	100	100	
2	Total Transmittance	%	ASTM D 1003	25	20	15	12	10	9	9	
3	Gloss @45°	%	ASTM D 2457	40	40	40	40	40	40	40	
Surface treatment level											
1	Both Side	Dynes/cm	ASTM D 2578	44	44	44	44	44	44	44	
Electrical											
2	Surface Resistivity	Ohm	ASTM D 257	>10 ¹³							
3	Volume Resistivity	Ohm cm	ASTM D 257	10 ¹⁶							

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

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Technical Specification

ARYAPET – A722

ARYAPET A 722 is a white opaque polyester film with one side or both side acrylic coated, having smooth surface, excellent superior gloss, high opacity and good handling property, suitable for label printing, photographic printing, coating and other general applications.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	36 (144)	50 (200)	75 (300)	100 400	125 500	
2	Yield	M ² /Kg	JBF Method	19.8	14.3	9.5	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	1.45	1.45	1.45	1.45	1.45	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	1600 (25.6)	1600 (25.6)	1500 (21.3)	1500 (21.3)	1500 (21.3)
		TD			1600 (25.6)	1600 (25.6)	1500 (21.3)	1500 (21.3)	1500 (21.3)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100
		TD			100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.40	0.40
		Dynamic			0.35	0.35	0.35	0.35	0.35
Thermal									
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.8	1.6	1.6	1.6	1.4
		TD			0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	
Optical									
1	Whiteness Index	%	ASTM D 313	100	100	100	100	100	
2	Total Transmittance	%	ASTM D 1003	20	15	12	10	9	
3	Gloss @45 ^o	%	ASTM D 2457	40	40	40	40	40	
Surface treatment level									
1	Coated Side	Dyne/cm	ASTM D 2578	40	40	40	40	40	
Electrical									
1	Surface Resistivity	Ohm	ASTM D 257	>10 ¹³					
2	Volume Resistivity	Ohm cm	ASTM D 257	10 ¹⁶					

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Storage & Handling

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Technical Specification

ARYAPET – A722

ARYAPET A 722 is a white opaque polyester film with one side or both side acrylic coated, having smooth surface, excellent superior gloss, high opacity and good handling property, suitable for label printing, photographic printing, coating and other general applications.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	190 (760)	225 (900)	250 (1000)	300 (1200)	350 (1400)	
2	Yield	M ² /Kg	JBF Method	3.76	3.17	2.86	2.38	2.04	
3	Density	gm/cc	ASTM D 1505	1.45	1.45	1.45	1.45	1.45	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1400 (19.9)	1400 (19.9)	1400 (19.9)	1400 (19.9)	1400 (19.9)
		TD			1500 (21.3)	1500 (21.3)	1500 (21.3)	1500 (21.3)	1500 (21.3)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100
		TD			100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.40	0.40
		Dynamic			0.35	0.35	0.35	0.35	0.35
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.4	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4
3	Melting Point	°C	DSC	255	255	255	255	255	
Optical									
1	Whiteness Index	%	ASTM D 313	100	100	100	100	100	
2	Total Transmittance	%	ASTM D 1003	7	5	3	2	2	
3	Gloss @45°	%	ASTM D 2457	40	40	40	40	40	
Surface treatment level									
1	Coated Side	Dyne/cm	ASTM D 2578	40	40	40	40	40	
Electrical									
2	Surface Resistivity	Ohm	ASTM D 257	10 ¹³					
3	Volume Resistivity	Ohm cm	ASTM D 257	10 ¹⁶					

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Storage & Handling

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Technical Specification

ARYAPET – A723

ARYAPET A 723 is a white opaque polyester film with one side or both side anchor coated suitable for aqueous base inks , having smooth surface, excellent superior gloss, high opacity and good handling property, suitable for label printing, photographic printing, coating and other general applications.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	36 (144)	50 (200)	75 (300)	100 400	125 500	
2	Yield	M ² /Kg	JBF Method	19.8	14.3	9.5	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	1.45	1.45	1.45	1.45	1.45	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	1600 (25.6)	1600 (25.6)	1500 (21.3)	1500 (21.3)	1500 (21.3)
		TD			1600 (25.6)	1600 (25.6)	1500 (21.3)	1500 (21.3)	1500 (21.3)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100
		TD			100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.40	0.40
		Dynamic			0.35	0.35	0.35	0.35	0.35
Thermal									
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.8	1.6	1.6	1.6	1.4
		TD			0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	
Optical									
1	Whiteness Index	%	ASTM D 313	100	100	100	100	100	
2	Total Transmittance	%	ASTM D 1003	20	15	12	10	9	
3	Gloss @45 ^o	%	ASTM D 2457	40	40	40	40	40	
Surface treatment level									
1	Coated Side	Dyne/cm	ASTM D 2578	56	56	56	56	56	
Electrical									
1	Surface Resistivity	Ohm	ASTM D 257	>10 ¹³					
2	Volume Resistivity	Ohm cm	ASTM D 257	10 ¹⁶					

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Storage & Handling

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Technical Specification

ARYAPET – A723

ARYAPET A 723 is a white opaque polyester film with one side or both side anchor coated suitable for aqueous base inks , having smooth surface, excellent superior gloss, high opacity and good handling property, suitable for label printing, photographic printing, coating and other general applications.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	190 (760)	225 (900)	250 (1000)	300 (1200)	350 (1400)	
2	Yield	M ² /Kg	JBF Method	3.76	3.17	2.86	2.38	2.04	
3	Density	gm/cc	ASTM D 1505	1.45	1.45	1.45	1.45	1.45	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1400 (19.9)	1400 (19.9)	1400 (19.9)	1400 (19.9)	1400 (19.9)
		TD			1500 (21.3)	1500 (21.3)	1500 (21.3)	1500 (21.3)	1500 (21.3)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100
		TD			100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.40	0.40
		Dynamic			0.35	0.35	0.35	0.35	0.35
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.4	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4
3	Melting Point	°C	DSC	255	255	255	255	255	
Optical									
1	Whiteness Index	%	ASTM D 313	100	100	100	100	100	
2	Total Transmittance	%	ASTM D 1003	7	5	3	2	2	
3	Gloss @45°	%	ASTM D 2457	40	40	40	40	40	
Surface treatment level									
1	Coated Side	Dyne/cm	ASTM D 2578	56	56	56	56	56	
Electrical									
2	Surface Resistivity	Ohm	ASTM D 257	10 ¹³					
3	Volume Resistivity	Ohm cm	ASTM D 257	10 ¹⁶					

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Storage & Handling

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Technical Specification

ARYAPET – A755

ARYAPET A755 is a white opaque polyester film with both side chemically pretreated Polyester film for flexible packaging application, suitable for aluminum metallization. Where in it is required to resist Sterilisation in hot water or steam. The pre-treatment provides very good adhesion to solvent based printing inks and laminating adhesives.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	36 (144)	50 (200)	75 (300)	100 400	125 500	
2	Yield	M ² /Kg	JBF Method	19.8	14.3	9.5	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	1.45	1.45	1.45	1.45	1.45	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	1600 (25.6)	1600 (25.6)	1500 (21.3)	1500 (21.3)	1500 (21.3)
		TD			1600 (25.6)	1600 (25.6)	1500 (21.3)	1500 (21.3)	1500 (21.3)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100
		TD			100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.40	0.40
		Dynamic			0.35	0.35	0.35	0.35	0.35
Thermal									
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.8	1.6	1.6	1.6	1.4
		TD			0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	
Optical									
1	Whiteness Index	%	ASTM D 313	100	100	100	100	100	
2	Total Transmittance	%	ASTM D 1003	20	15	12	10	9	
3	Gloss @45 ^o	%	ASTM D 2457	40	40	40	40	40	
Surface treatment level									
1	Coated Side	Dyne/cm	ASTM D 2578	56	56	56	56	56	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

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Technical Specification

ARYAPET – A755

ARYAPET A755 is a white opaque polyester film with both side chemically pretreated Polyester film for flexible packaging application, suitable for aluminum metallization. Where in it is required to resist Sterilisation in hot water or steam. The pre-treatment provides very good adhesion to solvent based printing inks and laminating adhesives.

Sr. No	Properties	Unit	Test Method	Typical Value					
General									
1	Thickness	Micron (Gauge)	JBF Method	190 (760)	225 (900)	250 (1000)	300 (1200)	350 (1400)	
2	Yield	M ² /Kg	JBF Method	3.76	3.17	2.86	2.38	2.04	
3	Density	gm/cc	ASTM D 1505	1.45	1.45	1.45	1.45	1.45	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1400 (19.9)	1400 (19.9)	1400 (19.9)	1400 (19.9)	1400 (19.9)
		TD			1500 (21.3)	1500 (21.3)	1500 (21.3)	1500 (21.3)	1500 (21.3)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100
		TD			100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.40	0.40
		Dynamic			0.35	0.35	0.35	0.35	0.35
Thermal									
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.4	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4
3	Melting Point	°C	DSC	255	255	255	255	255	
Optical									
1	Whiteness Index	%	ASTM D 313	100	100	100	100	100	
2	Total Transmittance	%	ASTM D 1003	7	5	3	2	2	
3	Gloss @45°	%	ASTM D 2457	40	40	40	40	40	
Surface treatment level									
1	Coated Side	Dyne/cm	ASTM D 2578	56	56	56	56	56	

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Storage & Handling

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Technical Specification

ARYAPET – A760

ARYAPET A 760 is a white opaque polyester film with improved weatherability, increased UV resistance and UV barrier as well as its significantly increased performance in high temperature high humidity environments for back sheets for photovoltaic applications.

Sr. No	Properties	Unit	Test Method	Typical Value	
General					
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	
2	Yield	M ² /Kg	JBF Method	14.0	
3	Density	gm/cc	ASTM D 1505	1.40	
Mechanical					
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	1400 (19.9)
		TD			1500 (21.3)
2	Elongation at break	MD	%	ASTM D 882	120
		TD			110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40
		Dynamic			0.35
Thermal					
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.5
		TD			0.4
2	Melting Point	^o C	DSC	255	
Optical					
1	Whiteness Index	%	ASTM D 313	100	
2	Total Transmittance	%	ASTM D 1003	15	
Surface treatment level					
1	Break down voltage	KV	ASTM D 149	10	
Electrical					
2	Surface Resistivity	Ohm	ASTM D 257	>10 ¹³	
3	Volume Resistivity	Ohm cm	ASTM D 257	10 ¹⁶	

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Storage & Handling

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Technical Specification

ARYAPET – A 800

ARYAPET A800 is co extruded Amber colour polyester film suitable for Metallising, Printing, Packaging & Lamination.

Sr. No.	Properties	Unit	Test Method	Typical Values		
General						
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	23 (92)	
2	Yield	M ² /Kg	JBF Method	59.5	31.1	
3	Density	gm/cc	ASTM D1505	1.4	1.4	
Mechanical						
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1900 (27.0)	1800 (25.6)
		TD			2000 (28.4)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100
		TD			100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.55	0.50
		Dynamic			0.50	0.45
Thermal						
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	2.0	2.0
		TD			0.4	0.4
Optical						
1	Haze	%	ASTM D 1003	2.0	2.0	
Barrier Properties						
1	W.V.T.R 38° C 90%RH	gm/m ² /day	ASTM E 96	40	22	
		gm/100in ² /day		2.6	1.4	
2	O.T.R 23° C 0 %RH	cc/m ² /day	ASTM D 3985	100	70	
		cc/100in ² /day		(6.5)	(4.5)	

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Storage & Handling

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Technical Specification

ARYAPET – A 820

ARYAPET A 820 is co extruded one side copolymer coated Amber color polyester film suitable for Metallising, printing, packaging & lamination.

Sr. No.	Properties		Unit	Test Method	Typical Values				
General									
1	Thickness		Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (72)	23 (92)	36 (144)
2	Yield		M ² /Kg	JBF Method	59.5	47.6	36.7	31.1	18.8
3	Density		gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1900 (27.0)	1900 (27.0)	1900 (27.0)	1800 (25.6)	1800 (25.6)
		TD			2000 (28.4)	2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100
		TD			100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.55	0.55	0.55	0.50	0.50
		Dynamic			0.50	0.50	0.50	0.45	0.45
Surface tension									
1	Copolymer coated side		Dyne/cm	ASTM D 2578	56	56	56	56	56
Thermal									
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4
Barrier Properties									
1	W.V.T.R. 38 ^o C 90%RH	gm/m ² /day		ASTM E 96	40	35	28	22	14
		gm/100in ² /day			2.6	2.3	1.8	1.4	1.0
2	O.T.R. 23 ^o C 0 %RH	cc/m ² /day		ASTM D 3985	100	90	80	70	50
		cc/100in ² /day			(6.5)	(5.8)	(5.2)	(4.5)	(3.2)

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Storage & Handling

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Technical Specification

ARYAPET – A 831

ARYAPET A 831 is co extruded one side acrylic coated Amber color polyester film suitable for Metallising, printing, packaging & lamination.

Sr. No.	Properties		Unit	Test Method	Typical Values				
General									
1	Thickness		Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (72)	23 (92)	36 (144)
2	Yield		M ² /Kg	JBF Method	59.5	47.6	36.7	31.1	18.8
3	Density		gm/cc	ASTM D1505	1.4	1.4	1.4	1.4	1.4
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	1900 (27.0)	1900 (27.0)	1900 (27.0)	1800 (25.6)	1800 (25.6)
		TD			2000 (28.4)	2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100
		TD			100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.55	0.55	0.55	0.50	0.50
		Dynamic			0.50	0.50	0.50	0.45	0.45
Surface tension									
1	Acrylic coated side		Dyne/cm	ASTM D 2578	40	40	40	40	40
Thermal									
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0
		TD			0.4	0.4	0.4	0.4	0.4
Barrier Properties									
1	W.V.T.R. 38 ^o C 90%RH	gm/m ² /day		ASTM E 96	40	35	28	22	14
		gm/100in ² /day			2.6	2.3	1.8	1.4	1.0
2	O.T.R. 23 ^o C 0 %RH	cc/m ² /day		ASTM D 3985	100	90	80	70	50
		cc/100in ² /day			(6.5)	(5.8)	(5.2)	(4.5)	(3.2)

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