

Technical Specification

ARYAPET – A100

ARYAPET A100 super clear Film specially for reprographics, Packaging, Labels, Photosensitive coating applications. Absolute scratch free film.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	50 (200)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.6	31.1	19.8	14.3	
3	Density	gm/cc	ASTM D 1505	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	2100 (29.8)	2100 (29.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)
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	0.45	0.45	0.45	0.45	0.45	0.45
		Dynamic			0.40	0.40	0.40	0.40	0.40	0.40
Thermal										
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.6	1.6	1.6	1.6	1.6	1.6
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	0.8	0.8	1.0	1.0	1.0	1.0	
2	Light Transmittance	--	ASTM D 1003	91	91	91	91	91	91	
Barrier										
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day	ASTM E 96	40	35	28	22	15	10	
		gm/100in ² /day		2.6	2.3	1.8	1.4	1.0	0.6	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day	ASTM D 3985	100	90	80	70	50	40	
		cc/100in ² /day		6.5	5.8	5.2	4.5	3.2	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.

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 – A100

ARYAPET A100 super clear Film specially for reprographics, Packaging, Labels, Photosensitive coating applications. Absolute scratch free film.

Sr. No.	Properties	Unit	Test Method	Typical Values					
General									
1	Thickness	Micron (Gauge)	JBF Method	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	120
		TD			100	100	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.45	0.45	0.40	0.40	0.40
		Dynamic			0.40	0.40	0.35	0.35	0.35
Thermal									
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.4	1.4	1.4	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	Haze	%	ASTM D 1003	1.0	1.2	1.2	1.2	1.2	
2	Total Luminous transmission	--	ASTM D 1003	91	91	91	91	91	

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 – A110

ARYAPET A110 super clear Film with one side corona treated specially for reprographics, Packaging, Labels, Photosensitive coating applications. Absolute scratch free film.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	50 (200)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.6	31.1	19.8	14.3	
3	Density	gm/cc	ASTM D 1505	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	2100 (28.8)	2100 (29.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)
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	0.50	0.50	0.50	0.50	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45	0.45
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.6	1.6	1.6	1.6
		TD			0.0	0.0	0.0	0.0	0.0	0.0
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	0.8	0.8	1.0	1.0	1.2	1.2	
2	Light Transmittance	--	ASTM D 1003	91	91	91	91	91	91	
Surface Treatment										
1	Treated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
Barrier										
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day gm/100in ² /day	ASTM E 96	40 (2.6)	35 2.3	28 (1.8)	22 (1.4)	15 (1.0)	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)	90 5.8	80 (5.2)	70 (4.5)	50 (3.2)	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.

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 – A110

ARYAPET A110 super clear Film with one side corona treated specially for reprographics, Packaging, Labels, Photosensitive coating applications. Absolute scratch free film.

Sr. No.	Properties	Unit	Test Method	Typical Values					
General									
1	Thickness	Micron (Gauge)	JBF Method	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	120
		TD			100	100	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.45	0.45	0.40	0.40	0.40
		Dynamic			0.40	0.40	0.35	0.35	0.35
Thermal									
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.4	1.4	1.4	1.4
		TD			0.0	0.0	0.0	0.0	0.0
2	Melting Point	^o C	DSC	255	255	255	255	255	
Optical									
1	Haze	%	ASTM D 1003	1.0	1.2	1.2	1.2	1.2	
2	Total Luminous transmission	--	ASTM D 1003	91	91	91	91	91	
Surface Treatment									
1	Treated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	

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 – A111

ARYAPET A111 Super Clear Film with Antistatic coating is suitable for Montage application.

(One side or both sides coating as per requirement.)

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		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	110	110	110	120	120	130
		TD			100	100	100	110	110	120
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30
Thermal										
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			1.0	1.0	1.0	1.0	1.0	1.0
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.0	1.0	1.0	1.2	1.2	1.2	
2	Light Transmittance	--	ASTM D 1003	91	91	91	90	90	90	
Electrical										
1	Surface Resistivity	Ohm	ASTM D 257	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	

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.

Technical Specification

ARYAPET – A112

ARYAPET A112 Super clear Film with One side slip coated and other side Corona treated.
The film is suitable for window films and lamination applications.

Sr. No	Properties	Unit	Test Method	Typical Values					
General									
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.6	31.1	19.8	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	2100 (29.8)	2100 (29.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)
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 D1894	0.50	0.50	0.50	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45
Thermal									
1	Shrinkage@ 150° C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	1.8
		TD			0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	
Optical									
1	Haze	%	ASTM D 1003	0.8	0.8	1.0	1.0	1.0	
2	Light Transmittance	%	ASTM D 1003	91	91	91	91	91	
Surface Treatment level									
1	Slip Coated side	Dyne/cm	ASTM D 2578	38	38	38	38	38	
2	Corona treated side	Dyne/cm	ASTM D 2578	52	52	52	52	52	
Barrier									
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day gm/100in ² /day	ASTM E 96	40 (2.6)	35 (2.3)	28 (1.8)	22 (1.4)	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)	90 (5.8)	80 (5.2)	70 (4.5)	50 (3.2)	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

ARYA PET need to be stocked 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 – A112

ARYAPET A112 Super clear Film with One side slip coated and other side Corona treated.
The film is suitable for window films and lamination applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		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	110	110	120	120	130	130
		TD			100	100	110	110	120	120
3	Co-efficient of friction	Static	--	ASTM D 1894	0.50	0.50	0.50	0.45	0.45	0.45
		Dynamic			0.45	0.45	0.45	0.40	0.40	0.40
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.0	1.2	1.2	1.2	1.2	1.2	
2	Light Transmittance	%	ASTM D 1003	91	91	91	91	91	91	
Surface treatment level										
1	Slip Coated side	Dyne/cm	ASTM D 2578	40	40	40	40	40	40	
2	Corona treated side	Dyne/cm	ASTM D 2578	54	54	54	54	54	54	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

ARYA PET need to be stocked 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^oC 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.

Technical Specification

ARYAPET – A114

ARYAPET A114 Super Clear Film with one side Antistatic Coating & Other side Anchor coating suitable for aqueous base inks / Resins,

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		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	110	110	110	120	120	130
		TD			100	100	100	110	110	120
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30
Thermal										
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.4	1.4	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.0	1.0	1.0	1.2	1.2	1.2	
2	Light Transmittance	--	ASTM D 1003	91	91	91	90	90	90	
Electrical										
1	Surface Resistivity on antistatic coating side	Ohm	ASTM D 257	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	
Surface treatment level										
1	Anchor coating side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	

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.

Technical Specification

ARYAPET – A116

ARYAPET A116 super clear Film with Antistatic coating on one side & Acrylic coating on the other side. The film is suitable for montage, lay out base, window box, and photocopy applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27)	1900 (27)
2	Elongation at break	MD	%	ASTM D 882	125	125	125	130	135	135
		TD			100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.6	1.6	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.0	1.0	1.0	1..2	1.2	1.2	
2	Light Transmittance	--	ASTM D 1003	90	90	90	89	89	89	
Electrical										
1	Surface Resistivity on antistatic coating side	Ohm	ASTM D 257	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	
Surface treatment level										
1	Treated side for Acrylic	Dynes/cm	ASTM D 2578	38	38	38	38	38	38	

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.

Technical Specification

ARYAPET – A119

ARYAPET A119 Super Clear Film with one side Anchor coating & other side Corona Treated film is suitable for Montage application.

Sr. No.	Properties	Unit	Test Method	Typical Values							
General											
1	Thickness	Micron (Gauge)	JBF Method	38 (152)	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	18.8	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	1.4	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	1900 (27.0)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2000 (28.4)	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	110	110	110	110	120	120	130
		TD			100	100	100	100	110	110	120
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30	0.30
Thermal											
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	2.0	1.8	1.8	1.6	1.6	1.6	1.6
		TD			0.4	0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	255	
Optical											
1	Haze	%	ASTM D 1003	1.0	1.0	1.0	1.0	1.2	1.2	1.2	
2	Light Transmittance	--	ASTM D 1003	91	91	91	91	90	90	90	
Surface Treatment level											
1	Corona side	Dynes/cm	ASTM D 2578	52	52	52	52	52	52	52	
2	Coated Side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	56	

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.

Technical Specification

ARYAPET – A120

**ARYAPET A120 Super clear Film with Copolymer coating. The film is suitable for montage, lay out base, window box, and photocopy applications. Absolute scratch free film.
(One side or both side coating as per the requirement)**

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		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	110	110	120	120	130	130
		TD			100	100	110	110	120	120
3	Co-efficient of friction	Static	--	ASTM D 1894	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
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.0	1.0	1.0	1.2	1.2	1.2	
2	Light Transmittance	--	ASTM D 1003	90	90	90	89	89	89	
Surface treatment level										
1	Treated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	

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.

Technical Specification

ARYAPET – A122

ARYAPET A122 Super Clear Film with slip coating is suitable for Solvent base Resins/inks. The film is suitable for BEF, LCD/LED and Diffusion sheet applications. (One side or both side coating as per the requirement)

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		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	110	110	120	120	130	130
		TD			100	100	110	110	120	120
3	Co-efficient of friction	Static	--	ASTM D 1894	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
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.0	1.0	1.0	1.2	1.2	1.2	
2	Light Transmittance	--	ASTM D 1003	90	90	90	90	90	90	
Surface treatment level										
1	Treated side	Dynes/cm	ASTM D 2578	40	40	40	40	40	40	

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.

Technical Specification

ARYAPET – A123

ARYAPET A123 Super Clear Film with Anchor coating suitable for aqueous base inks. The film is suitable for montage, lay out base, window box, and photocopy applications. (One side or both side coating as per the requirement)

Sr. No.	Properties	Unit	Test Method	Typical Values							
General											
1	Thickness	Micron (Gauge)	JBF Method	36 (144)	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	19.8	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	1.4	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	2000 (28.4)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2100 (29.8)	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	110	110	120	120	130
		TD			100	100	100	100	110	110	120
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.35	0.30	0.30	0.30	0.30	0.30	0.30
Thermal											
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.4	1.4	1.4	1.4	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	Haze	%	ASTM D 1003	1.0	1.0	1.0	1.0	1.2	1.2	1.2	
2	Light Transmittance	--	ASTM D 1003	91	91	91	91	90	90	90	
Surface treatment level											
1	Coated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	56	

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.

Technical Specification

ARYAPET – A127

ARYAPET A127 Super Clear Film with PU coating is suitable for PU Resins/inks. The film is suitable for BEF, LCD/LED, and Diffusion Sheet applications. (One side or both side coating as per the requirement)

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		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	110	110	120	120	130	130
		TD			100	100	110	110	120	120
3	Co-efficient of friction	Static	--	ASTM D 1894	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
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.0	1.0	1.0	1.2	1.2	1.2	
2	Light Transmittance	--	ASTM D 1003	90	90	90	90	90	90	
Surface treatment level										
1	Treated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	

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.

Technical Specification

ARYAPET – A131

ARYAPET A131 is Acrylic pretreated Polyester film suitable for improved ink adhesion for high quality printing & packaging, solar control and label applications. (One side or both side coating as per the requirement)

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	50 (200)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.6	31.1	19.8	14.3	
3	Density	gm/cc	ASTM D 1505	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	2100 (28.8)	2100 (29.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)
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	0.50	0.50	0.50	0.50	0.45	0.45
		Dynamic			0.45	0.45	0.45	0.45	0.40	0.40
Thermal										
1	Shrinkage @ 150 ^o 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
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	0.8	0.8	1.0	1.0	1.0	1.0	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	
Surface Treatment level										
1	Treated side	Dynes/cm	ASTM D 2578	38	38	38	38	38	38	
2	Plain film side	Dynes/cm	ASTM D 2578	42	42	42	42	42	42	
Barrier										
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day	ASTM E 96	40	35	28	22	15	10	
		gm/100in ² /day		2.6	2.3	1.8	1.4	1.0	0.6	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day	ASTM D 3985	100	90	80	70	50	40	
		cc/100in ² /day		6.5	5.8	5.2	4.5	3.2	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.

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 – A133

ARYAPET A133 Super clear Film with both side Acrylic coating suitable for improved ink adhesion for high quality printing & packaging, solar control and label applications.

Sr. No.	Properties		Unit	Test Method	Typical Values					
General										
1	Thickness		Micron (Gauge)	JBF Method	12 (48)	15 (60)	23 (92)	36 (144)	50 (200)	75 (300)
2	Yield		M ² /Kg	JBF Method	59.5	47.6	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
Mechanical										
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	2100 (28.8)	2100 (28.8)	2100 (28.8)	2000 (28.4)	1900 (27.0)	1900 (27.0)
		TD			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	120	120	120	120	120	120
		TD			110	110	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.45	0.45	0.45	0.45	0.45	0.40
		Dynamic			0.40	0.40	0.40	0.40	0.40	0.35
Thermal										
1	Shrinkage @150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	1.8	1.6
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point		°C	DSC	255	255	255	255	255	255
Optical										
1	Haze		%	ASTM D 1003	0.8	0.8	1.0	1.0	1.0	1.0
Surface Treatment level										
1	Both side		Dynes/cm	ASTM D 2578	40	40	40	40	40	40
Barrier										
1	W.V.T.R. (38°C& 90% RH)		gm/m ² /day	ASTM E 96	40	35	22	15	10	09
			gm/100in ² /day		2.6	2.3	1.4	1.0	0.6	0.54
2	O.T.R. (23°C & 0%RH)		cc/m ² /day	ASTM D 3985	100	90	70	50	40	35
			cc/100in ² /day		6.5	5.8	4.5	3.2	2.6	2.1

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 153

ARYAPET A153 is super clear Polyester film suitable for thermal lamination due to its controlled thermal properties in transverse direction (One side or both side coating as per the requirement)

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	23 (92)	36 (144)	50 (200)	75 (300)	100 (400)	125 (500)	
2	Yield	M ² /Kg	JBF Method	31.1	19.8	14.3	9.52	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	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	2100 (29.8)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)
		TD			2200 (31.3)	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	110	120
		TD			100	100	100	100	100	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.50	0.50	0.50	0.50	0.45	0.45
		Dynamic			0.45	0.45	0.45	0.45	0.40	0.40
Thermal										
1	Shrinkage @ 150 ^o C /30'	MD	%	ASTM D 1204	1.8	1.8	1.8	1.8	1.8	1.8
		TD			1.6	1.6	1.6	1.6	1.6	1.6
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.0	1.0	1.0	1.0	1.0	1.2	
2	Light Transmittance	--	ASTM D 1003	90	90	90	90	90	90	
Surface Treatment level										
1	Coated side	Dynes/cm	ASTM D 2578	40	40	40	40	40	40	

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 – A170

ARYAPET A170 super clear film suitable for Siliconising, Adhesive tape.

Sr. No	Properties	Unit	Test Method	Typical Values								
General												
1	Thickness	Micron (Gauge)	JBF Method	12 48	15 60	19 76	23 92	30 120	36 144	50 200	75 300	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.5	31.1	23.8	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	1.4	
Mechanical												
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	2100 (28.8)	2100 (28.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)	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)	2100 (29.8)	2000 (28.4)	2000 (28.4)
2	Elongation at break	MD	%	ASTM D 882	100	100	100	100	100	100	100	110
		TD			100	100	100	100	100	100	100	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.50	0.50	0.50	0.50	0.50	0.50	0.45	0.45
		Dynamic			0.45	0.45	0.45	0.45	0.45	0.45	0.40	0.40
Thermal												
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.6	1.6	1.6	1.6	1.4	1.4
		TD			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	Shrinkage @ 190 ^o C/20'	MD	%	ASTM D 1204	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0
		TD			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Melting Point	^o C	DSC	255	255	255	255	255	255	255	255	
Optical												
1	Haze	%	ASTM D 1003	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.2	
2	Light Transmittance	--	ASTM D 1003	91	91	91	91	91	91	91	91	

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 – A174

ARYAPET A174 Super Clear foil both side coated with Anti-Fog properties after repeated cleaning with water suitable for Surgical Medical Mask and other applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.30	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1900 (27.0)
		TD			2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	2000 (28.4)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	130	110
		TD			100	100	110	110	120	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			1.0	1.0	1.0	1.0	1.0	1.0
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.0	1.0	1.2	1.2	1.2	1.2	
2	Total Luminous transmission	--	ASTM D 1003	91	91	91	91	91	91	
Surface										
1	Surface Tension	Dyne/cm	ASTM D 2578	70+	70+	70+	70+	70+	70+	
2	Anti –Fog Test		Internal	Pass						

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.

Technical Specification

ARYAPET – A200

ARYAPET A200 optically clear Film specially for reprographics, Packaging, Labels, Photosensitive coating applications. . Absolute scratch free film.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	50 (200)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.6	31.1	19.8	14.3	
3	Density	gm/cc	ASTM D 1505	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	2100 (28.8)	2100 (29.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)
2	Elongation at break	MD	%	ASTM D 882	120	120	120	120	120	120
		TD			110	110	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	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
Thermal										
1	Shrinkage @ 150°/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	1.8	1.8
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	
Barrier										
1	W.V.T.R. (38°C& 90% RH)	gm/m ² /day	ASTM E 96	40	35	28	22	15	10	
		gm/100in ² /day		2.6	2.3	1.8	1.4	1.0	0.6	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day	ASTM D 3985	100	90	80	70	50	40	
		cc/100in ² /day		6.5	5.8	5.2	4.5	3.2	2.6	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

ARYA PET need to be stocked 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 – A200

ARYAPET A200 optically clear Film specially for reprographics, Packaging, Labels, Photosensitive coating applications. Absolute scratch free film.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	75 (300)	100 (400)	125 (500)	175 (700)	190 (760)	250 (1000)	
2	Yield	M ² /Kg	JBF Method	9.52	7.14	5.71	4.08	3.76	2.85	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	120	130	130	130	135	135
		TD			110	120	120	120	125	125
3	Co-efficient of friction	Static	--	ASTM D 1894	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
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.8	1.8	2.0	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	

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 – A202

ARYAPET A202 optically clear Film specially for sequin applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	85 (340)	90 (360)	95 (380)	100 (400)	105 (420)	110 (440)	
2	Yield	M ² /Kg	JBF Method	8.40	7.93	7.52	7.14	6.80	6.49	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		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	110	110	130	130	130	130
		TD			100	100	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D1894	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
Thermal										
1	Shrinkage @ 150° C/30'	MD	%	ASTM D1204	1.6	1.6	1.6	1.6	1.6	1.6
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Surface Treatment level										
1	Both side	Dynes/cm	ASTM D 2578	44	44	44	44	44	44	
Optical										
1	Haze	%	ASTM D1003	1.6	1.6	1.6	1.8	1.8	1.8	
2	Light Transmittance	--	ASTM D1003	89	89	89	89	89	89	

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 – A202

ARYAPET A202 optically clear Film specially for sequin applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	115 (460)	120 (480)	125 (500)	130 (520)	135 (540)	145 (580)	
2	Yield	M ² /Kg	JBF Method	6.21	5.95	5.71	5.49	5.29	4.92	
3	Density	gm/cc	ASTM D 1505	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 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	130	130	130	135	135	135
		TD			110	110	110	120	120	120
3	Co-efficient of friction	Static	--	ASTM D1894	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
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D1204	1.6	1.6	1.6	1.6	1.6	1.6
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Surface Treatment level										
1	Both side	Dynes/cm	ASTM D 2578	44	44	44	44	44	44	
Optical										
1	Haze	%	ASTM D1003	2.0	2.0	2.0	2.0	2.0	2.0	
2	Light Transmittance	--	ASTM D1003	89	89	89	89	89	89	

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 – A205

ARYAPET A205 is optically clear Polyester film suitable for Yarn grade application

Sr. No.	Properties	Unit	Test Method	Typical Values					
General									
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.6	31.1	31.1	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	2200 (31.3)	2200 (31.3)	2100 (29.9)	2100 (29.9)	2000 (28.4)
		TD			2100 (29.9)	2100 (29.9)	2000 (28.4)	2000 (28.4)	2100 (29.8)
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	0.50	0.50	0.5	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45
Thermal									
1	Shrinkage @ 190 ⁰ C/20'	MD	%	ASTM D 1204	3.5	3.5	3.5	3.5	3.0
		TD			0.0	0.0	0.0	0.0	0.0
2	Melting Point	⁰ C	DSC	255	255	255	255	2.55	
Optical									
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	
Barrier									
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day (gm/100in ² /day)	ASTM E 96	40 (2.6)	32 (2.1)	28 (1.8)	22 (1.4)	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)	90 (5.8)	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 – A206

ARYAPET A206 is optically clear Polyester film suitable for Hot Stamping Foil application.

Sr. No.	Properties	Unit	Test Method	Typical Values							
General											
1	Thickness	Micron (Gauge)	JBF Method	10 (40)	12 (48)	15 (60)	19 (76)	23 (92)	25 (100)	36 (144)	
2	Yield	M ² /Kg	JBF Method	71.4	59.5	47.6	37.6	31.1	28.5	31.1	
3	Density	gm/cc	ASTM D 1505	1.4	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	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.9)	2100 (29.9)	2100 (29.9)	2000 (28.4)
		TD			2100 (29.9)	2100 (29.9)	2100 (29.9)	2000 (28.4)	2000 (28.4)	2000 (28.4)	2100 (29.8)
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	0.50	0.50	0.50	0.5	0.50	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45	0.45	0.45
Thermal											
1	Shrinkage @ 190 ^o C/20'	MD	%	ASTM D 1204	4.0	4.0	4.0	4.0	4.0	4.0	3.6
		TD			0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	Melting Point	^o C	DSC	255	255	255	255	255	255	255	
Optical											
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Barrier											
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day (gm/100in ² /day)	ASTM E 96	50 (3.2)	40 (2.6)	32 (2.1)	28 (1.8)	22 (1.4)	22 (1.4)	15 (1.0)	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day (cc/100in ² /day)	ASTM D 3985	110 (7.1)	100 (6.5)	90 (5.8)	80 (5.2)	70 (4.5)	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 210

ARYAPET A210 is one- side / both side corona treated Polyester film suitable for Metalizing, printing & lamination and has good wettability & excellent machinability and other Industrial application.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	50 (200)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.6	31.1	19.8	14.3	
3	Density	gm/cc	ASTM D 1505	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	2100 (28.8)	2100 (28.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)
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	0.50	0.50	0.50	0.50	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45	0.45
Thermal										
1	Shrinkage @ 50°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
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	
Surface Treatment level										
1	Corona side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
2	Plain film side	Dynes/cm	ASTM D 2578	42	42	42	42	42	42	
Barrier										
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day	ASTM E 96	40	35	28	22	15	10	
		gm/100in ² /day		2.6	2.3	1.8	1.4	1.0	0.6	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day	ASTM D 3985	100	90	80	70	50	40	
		cc/100in ² /day		6.5	5.8	5.2	4.5	3.2	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.

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 210

ARYAPET A210 is one- side / both side corona treated Polyester film suitable for Metalizing, printing & lamination and has good wettability & excellent machinability and other Industrial application.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	75 (300)	100 (400)	125 (500)	175 (700)	188 (760)	250 (1000)	
2	Yield	M ² /Kg	JBF Method	9.52	7.14	5.71	4.08	3.76	2.85	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	120	120
		TD			100	100	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	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
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.0	0.0	0.0	0.0	0.0	0.0
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.8	1.8	2.0	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	
Surface Treatment level										
1	Corona side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
2	Plain film side	Dynes/cm	ASTM D 2578	42	42	42	42	42	42	

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 – A211

ARYAPET A211 Optically Clear Film with Antistatic coating and is suitable for Montage application. (One side or both side coating as per requirement)

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.30	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1900 (27.0)
		TD			2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	2000 (28.4)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	130	110
		TD			100	100	110	110	120	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			1.0	1.0	1.0	1.0	1.0	1.0
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.8	1.8	
2	Total Luminous transmission	--	ASTM D 1003	89	89	89	89	89	89	
Electrical										
4	Surface Resistivity	Ohm	ASTM D 257	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	

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.

Technical Specification

ARYAPET – A212

ARYAPET A212 optically clear Film with One side slip (Acrylic) coated and other side Corona treated. The film is suitable for window film and lamination applications.

Sr. No	Properties	Unit	Test Method	Typical Values					
General									
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.6	31.1	19.8	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	2100 (29.8)	2100 (29.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)
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 D1894	0.50	0.50	0.50	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45
Thermal									
1	Shrinkage@ 150° C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	1.6	1.6
		TD			0.4	0.4	0.4	0.2	0.2
2	Melting Point	°C	DSC	255	255	255	255	255	
Optical									
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	
2	Light Transmittance	%	ASTM D 1003	89	89	89	89	89	
Surface Treatment level									
1	Slip Coated side	Dynes/cm	ASTM D 2578	38	38	38	38	38	
2	Corona treated side	Dynes/cm	ASTM D 2578	52	52	52	52	52	
Barrier									
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day gm/100in ² /day	ASTM E 96	40 (2.6)	35 (2.3)	28 (1.8)	22 (1.4)	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)	90 (5.8)	80 (5.2)	70 (4.5)	50 (3.2)	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

ARYA PET need to be stocked 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 – A212

ARYAPET A212 optically clear Film with One side slip(Acrylic) coated and other side Corona treated. The film is suitable for window film and lamination applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		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	110	110	120	120	130	130
		TD			100	100	110	110	120	120
3	Co-efficient of friction	Static	--	ASTM D 1894	0.50	0.50	0.50	0.45	0.45	0.45
		Dynamic			0.45	0.45	0.45	0.40	0.40	0.40
Thermal										
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.2	0.2	0.2	0.2	0.2	0.2
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.8	1.8	
2	Light Transmittance	%	ASTM D 1003	89	89	89	89	89	89	
Surface treatment level										
1	Slip Coated side	Dynes/cm	ASTM D 2578	38	38	38	38	38	38	
2	Corona treated side	Dynes/cm	ASTM D 2578	52	52	52	52	52	52	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

ARYA PET need to be stocked 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.

Technical Specification

ARYAPET – A213

ARYAPET A213 optically clear one- side corona treated & other side Copolymer coated Polyester film is suitable for printing and metalizing, which promotes improved ink adhesion and bond strength for flexible packaging applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	10 (40)	12 (48)	19 (72)	23 (92)	36 (144)	50 (200)	
2	Yield	M ² /Kg	JBF Method	71.4	59.5	37.6	31.1	19.8	14.3	
3	Density	gm/cc	ASTM D 1505	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	2100 (28.8)	2100 (28.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)
2	Elongation at break	MD	%	ASTM D 882	120	120	120	120	120	120
		TD			110	110	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.50	0.50	0.50	0.50	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45	0.45
Thermal										
1	Shrinkage @150 ^o C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	1.8	1.8
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	
Surface Treatment level										
1	Copolymer Coated	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
2	Corona treated side	Dynes/cm	ASTM D 2578	52	52	52	52	52	52	
Barrier										
1	W.V.T.R. (38°C& 90% RH)	gm/m ² /day gm/100in ² /day	ASTM E 96	50 3.2	40 2.6	28 1.8	22 1.4	15 1.0	10 0.6	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day cc/100in ² /day	ASTM D 3985	110 7.1	100 6.5	80 5.2	70 4.5	50 3.2	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.

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 – A214

ARYAPET A214 Optically Clear Film with one side Anchor coating suitable for aqueous base inks / Resins & other side Antistatic coating ,

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (27.0)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (28.4)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	120	120
		TD			100	100	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.6	1.6	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.8	1.8	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	
Electrical										
1	Surface Resistivity on antistatic coating side	Ohm	ASTM D 257	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	
Surface treatment level										
1	Anchor coating side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	

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.

Technical Specification

ARYAPET – A215

ARYAPET A215 is optically clear biaxially oriented, co-extruded one side chemically pretreated and other side corona treated Polyester film for flexible packaging application 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 Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	10 (40)	12 (48)	19 (72)	23 (92)	36 (144)	50 (200)	
2	Yield	M ² /Kg	JBF Method	71.4	59.5	37.6	31.1	19.8	14.3	
3	Density	gm/cc	ASTM D 1505	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	2100 (28.8)	2100 (28.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)
2	Elongation at break	MD	%	ASTM D 882	120	120	120	120	120	120
		TD			110	110	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.50	0.50	0.50	0.50	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45	0.45
Thermal										
1	Shrinkage @150° C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	1.8	1.8
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	
Surface Treatment level										
1	Chemically Treated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
2	Corona treated side	Dynes/cm	ASTM D 2578	52	52	52	52	52	52	
Barrier										
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day gm/100in ² /day	ASTM E 96	50 3.2	40 2.6	28 1.8	22 1.4	15 1.0	10 0.6	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day cc/100in ² /day	ASTM D 3985	110 7.1	100 6.5	80 5.2	70 4.5	50 3.2	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.

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 – A216

ARYAPET A216 optically clear Film with Antistatic coating on one side & Acrylic coating on the other side. The film is suitable for montage, lay out base, window box, and photocopy applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	120	120
		TD			100	100	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	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
Thermal										
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.4	1.4	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.8	1.8	
2	Total Luminous transmission	--	ASTM D 1003	89	89	89	89	89	89	
Electrical										
1	Surface Resistivity on antistatic coating side	Ohm	ASTM D 257	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	
Surface treatment level										
1	Treated side for Acrylic	Dynes/cm	ASTM D 2578	38	38	38	38	38	38	

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.

Technical Specification

ARYAPET – A217

ARYAPET A217 Optically Clear Film with one side Antistatic coating & other side Corona Treated film is suitable for Montage application.

Sr. No.	Properties	Unit	Test Method	Typical Values							
General											
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	250 (1000)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	2.85	
3	Density	gm/cc	ASTM D 1505	1.4	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	110	110	110	120	120	135	145
		TD			100	100	100	110	110	120	130
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35	0.40
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30	0.35
Thermal											
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.8	1.8	1.6	1.6	1.6	1.6	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	255	
Optical											
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.8	1.8	2.0	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	89	
Surface Treatment level											
1	Corona side	Dynes/cm	ASTM D 2578	52	52	52	52	52	52	52	
Electrical											
1	Surface Resistivity on antistatic side	Ohm	ASTM D 257	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	

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.

Technical Specification

ARYAPET – A220

ARYAPET A220 optically clear Film with Copolymer coating. The film is suitable for montage, lay out base, window box, and photocopy applications.

(One side or both side coating as per the requirement)

Sr. No	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	10 (40)	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	
2	Yield	M ² /Kg	JBF Method	71.4	59.5	47.6	37.6	31.1	19.8	
3	Density	gm/cc	ASTM D 1505	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	2100 (29.8)	2100 (29.8)	2100 (29.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)
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 D1894	0.50	0.50	0.50	0.50	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45	0.45
Thermal										
1	Shrinkage@ 150 ^o C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	1.8
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	
Surface Treatment level										
1	Coated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	
2	Plain film side	Dynes/cm	ASTM D 2578	42	42	42	56	42	42	
Barrier										
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day gm/100in ² /day	ASTM E 96	50 (3.2)	40 (2.6)	35 (2.3)	28 (1.8)	22 (1.4)	15 (1.0)	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day cc/100in ² /day	ASTM D 3985	110 (7.1)	100 (6.5)	90 (5.8)	80 (5.2)	70 (4.5)	50 (3.2)	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

ARYA PET need to be stocked 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 – A220

ARYAPET A220 optically clear Film with Copolymer coating. The film is suitable for montage, lay out base, window box, and photocopy applications.

(One side or both side coating as per the requirement)

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		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	110	110	120	120	130	130
		TD			100	100	110	110	120	120
3	Co-efficient of friction	Static	--	ASTM D 1894	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
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.8	1.8	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	
Surface treatment level										
1	Treated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	

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.

Technical Specification

ARYAPET – A221

ARYAPET A221 Clear Film with One copolymer coated and other side antistatic coated.
The film is suitable for packaging, window film and lamination applications.

Sr. No	Properties	Unit	Test Method	Typical Values					
General									
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.6	31.1	19.8	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (Kpsi)	ASTM D 882	2100 (29.8)	2100 (29.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)
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 D1894	0.50	0.50	0.50	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45
Thermal									
1	Shrinkage@ 150° C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	1.6	1.6
		TD			0.4	0.4	0.4	0.2	0.2
2	Melting Point	°C	DSC	255	255	255	255	255	
Optical									
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	
2	Light Transmittance	%	ASTM D 1003	89	89	89	89	89	
Surface Treatment level									
1	Copolymer Coated side	Dynes/cm	ASTM D 2578	54	54	54	54	54	
Electrical									
1	Surface Resistivity	Ohm	ASTM D 257	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	
Barrier									
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day gm/100in ² /day	ASTM E 96	40 (2.6)	35 (2.3)	28 (1.8)	22 (1.4)	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)	90 (5.8)	80 (5.2)	70 (4.5)	50 (3.2)	

MD = Machine Direction, TD = Transverse Direction

Storage & Handling

ARYA PET need to be stocked 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 – A222

ARYAPET A222 optically clear Film with slip coating is suitable for Solvent base Resins/inks. The film is suitable for BEF, LCD/LED and Diffusion sheet applications. (One side or both side coating as per the requirement)

Sr. No.	Properties	Unit	Test Method	Typical Values							
General											
1	Thickness	Micron (Gauge)	JBF Method	36 (144)	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	19.8	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	1.4	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	2000 (28.4)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2100 (29.8)	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	125	110	110	120	120	120
		TD			100	100	100	100	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30	0.30
Thermal											
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	1.8	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	255	
Optical											
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.8	1.8	
2	Total Luminous transmission	--	ASTM D 1003	89	89	89	89	89	89	89	
Surface treatment level											
4	Treated side	Dynes/cm	ASTM D 2578	40	40	40	40	40	40	40	

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.

Technical Specification

ARYAPET – A223

ARYAPET A223 Optically Clear Film with Anchor coating, suitable for Montage, Layout base, Window box, photocopies (One side or both side coating as per requirement).

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		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	125	110	110	120	120	120
		TD			100	100	100	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30
Thermal										
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.8	1.8	
2	Total Luminous transmission	--	ASTM D 1003	89	89	89	89	89	89	
Surface treatment level										
4	Treated side	Dynes/cm	ASTM D 2578	56	56	56	56	56	56	

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.

Technical Specification

ARYAPET – A227

ARYAPET A227 Optically Clear Film with PU coating is suitable for PU Resins/inks. The film is suitable for BEF, LCD/LED, and Diffusion Sheet applications. (One side or both side coating as per the requirement)

Sr. No.	Properties	Unit	Test Method	Typical Values							
General											
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	250 (1000)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	2.85	
3	Density	gm/cc	ASTM D 1505	1.4	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (27.0)	1800 (25.5)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (28.4)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	120	120	120
		TD			100	100	110	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30	0.30
Thermal											
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.6	1.6	1.6	1.6	1.4	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	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.8	1.8	2.0	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	89	
Surface treatment level											
1	Coating side	Dyne/cm	ASTM D 2578	56	56	56	56	56	56	56	

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.

Technical Specification

ARYAPET – A231

ARYAPET A231 optically clear Film with one side Acrylic coating suitable for improved ink adhesion for high quality printing & packaging, solar control and label applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	19 (76)	23 (92)	36 (144)	50 (200)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	37.6	31.1	19.8	14.3	
3	Density	gm/cc	ASTM D 1505	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	2100 (28.8)	2100 (28.8)	2100 (29.8)	2100 (29.8)	2000 (28.4)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)
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	0.45	0.45	0.45	0.45	0.40	0.40
		Dynamic			0.40	0.40	0.40	0.40	0.35	0.35
Thermal										
1	Shrinkage @ 150 ^o C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	1.8
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	
Surface treatment level										
1	Treated side	Dynes/cm	ASTM D 2578	40	40	40	40	40	40	
Barrier										
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day gm/100in ² /day	ASTM E 96	40 (2.6)	35 (2.3)	28 (1.8)	22 (1.4)	15 (1.0)	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)	90 (5.8)	80 (5.2)	70 (4.5)	50 (3.2)	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.

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 – A231

ARYAPET A231 optically clear Film with one side Acrylic coating.

Sr. No.	Properties	Unit	Test Method	Typical Values					
General									
1	Thickness	Micron (Gauge)	JBF Method	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	120
		TD			100	100	110	110	110
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 ^o C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	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	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.8	1.8	
2	Total Luminous transmission	--	ASTM D 1003	89	89	89	89	89	
Surface treatment level									
4	Treated side	Dynes/cm	ASTM D 2578	40	40	40	40	40	

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 – A233

ARYAPET A233 optically clear Film with both side chemical coating suitable for improved ink adhesion for high quality printing & packaging, solar control and label applications.

Sr. No.	Properties	Unit	Test Method	Typical Values					
General									
1	Thickness	Micron (Gauge)	JBF Method	12 (48)	15 (60)	23 (92)	36 (144)	50 (200)	
2	Yield	M ² /Kg	JBF Method	59.5	47.6	31.1	19.8	14.3	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
Mechanical									
1	Tensile Strength at break	MD	Kg/cm ² (kpsi)	ASTM D 882	2100 (28.8)	2100 (28.8)	2100 (28.8)	2000 (28.4)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)
2	Elongation at break	MD	%	ASTM D 882	120	120	120	120	120
		TD			110	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.45	0.45	0.45	0.45	0.45
		Dynamic			0.40	0.40	0.40	0.40	0.40
Thermal									
1	Shrinkage @150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	1.8
		TD			0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	
Optical									
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	
Surface Treatment level									
1	Both side	Dynes/cm	ASTM D 2578	40	40	40	40	40	
Barrier									
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day	ASTM E 96	40	35	22	15	10	
		gm/100in ² /day		2.6	2.3	1.4	1.0	0.6	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day	ASTM D 3985	100	90	70	50	40	
		cc/100in ² /day		6.5	5.8	4.5	3.2	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.

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 – A233

ARYAPET A233 optically clear Film with both side chemical coating suitable for improved ink adhesion for high quality printing & packaging, solar control and label applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	75 (300)	100 (400)	125 (500)	175 (700)	190 (760)	250 (1000)	
2	Yield	M ² /Kg	JBF Method	9.52	7.14	5.71	4.08	3.76	2.85	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)
		TD			2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	110	130	130	130	135	135
		TD			100	120	120	120	125	125
3	Co-efficient of friction	Static	--	ASTM D 1894	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
Thermal										
1	Shrinkage @150°C/30'	MD	%	ASTM D 1204	1.6	1.6	1.4	1.4	1.4	1.4
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.8	1.8	2.0	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	
Surface Treatment level										
1	Both side	Dynes/cm	ASTM D 2578	40	40	40	40	40	40	

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 – A237

ARYAPET A237 Optically Clear Film with one side acrylic coated other side PU coating is suitable for PU Resins/inks

Sr. No.	Properties	Unit	Test Method	Typical Values							
General											
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	250 (1000)	
2	Yield	M ² /Kg	JBF Method	14.3	9.52	7.14	5.71	4.08	3.80	2.85	
3	Density	gm/cc	ASTM D 1505	1.4	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	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (27.0)	1800 (25.5)
		TD			2000 (28.4)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (28.4)	1900 (27.0)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	120	120	120
		TD			100	100	110	110	110	110	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30	0.30
Thermal											
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	1.6	1.6	1.6	1.6	1.4	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	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.8	1.8	2.0	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	89	
Surface treatment level											
1	Acrylic coating side	Dyne/cm	ASTM D 2578	40	40	40	40	40	40	40	
2	PU Coating side	Dyne/cm	ASTM D 2578	56	56	56	56	56	56	56	

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.

Technical Specification

ARYAPET – A 250

ARYAPET A250 is optically clear Polyester film suitable for thermal lamination due to its controlled thermal properties in transverse direction.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	23 (92)	36 (144)	50 (200)	75 (300)	100 (400)	125 (500)	
2	Yield	M ² /Kg	JBF Method	31.1	19.8	14.3	9.52	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	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	2100 (29.8)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)
		TD			2200 (31.3)	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	110	120
		TD			100	100	100	100	100	110
3	Co-efficient of friction	Static	--	ASTM D 1894	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
Thermal										
1	Shrinkage @ 150 ^o C /30'	MD	%	ASTM D 1204	2.2	2.2	2.2	2.0	2.0	2.0
		TD			1.8	1.8	1.8	1.6	1.6	1.6
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	

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 251

ARYAPET A251 is one side corona treated optically clear Polyester film suitable for thermal lamination due to its controlled thermal properties in transverse direction.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	23 (92)	36 (144)	50 (200)	75 (300)	100 (400)	125 (500)	
2	Yield	M ² /Kg	JBF Method	31.1	19.8	14.3	9.52	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	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	2100 (29.8)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)
		TD			2200 (31.3)	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	110	120
		TD			100	100	100	100	100	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.50	0.50	0.50	0.50	0.45	0.45
		Dynamic			0.45	0.45	0.45	0.45	0.40	0.40
Thermal										
1	Shrinkage @ 150° C /30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			1.6	1.6	1.6	1.6	1.6	1.6
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	
Surface Treatment level										
1	Corona side	Dynes/cm	ASTM D 2578	54	54	54	54	54	54	

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 253

ARYAPET A253 is optically clear Polyester film suitable for thermal lamination due to its controlled thermal properties in transverse direction (One side or both side coating as per the requirement)

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	23 (92)	36 (144)	50 (200)	75 (300)	100 (400)	125 (500)	
2	Yield	M ² /Kg	JBF Method	31.1	19.8	14.3	9.52	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	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	2100 (29.8)	2000 (28.4)	1900 (27.0)	1900 (27.0)	1800 (25.5)	1800 (25.5)
		TD			2200 (31.3)	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	110	120
		TD			100	100	100	100	100	110
3	Co-efficient of friction	Static	--	ASTM D 1894	0.40	0.40	0.40	0.45	0.40	0.40
		Dynamic			0.35	0.35	0.35	0.35	0.35	0.35
Thermal										
1	Shrinkage @ 150 ^o C /30'	MD	%	ASTM D 1204	1.8	1.8	1.8	1.8	1.8	1.8
		TD			1.6	1.6	1.6	1.6	1.6	1.6
2	Melting Point	^o C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	
2	Light Transmittance	--	ASTM D 1003	89	89	89	89	89	89	
Surface Treatment level										
1	Coated side	Dynes/cm	ASTM D 2578	40	40	40	40	40	40	

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 – A265

ARYAPET A265 is optically clear one- side Chemical Coated and other side corona treated Polyester film suitable for printing, metalizing, coating & Improved bond strength in flexible packaging applications. The film is not recommended for laminates undergoing high temperature applications as boiling, pasteurization, sterilization, retort, hot oven or microwave.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	10 (40)	12 (48)	19 (76)	23 (92)	36 (144)	50 (200)	
2	Yield	M ² /Kg	JBF Method	71.4	59.5	37.6	31.1	19.8	14.3	
3	Density	gm/cc	ASTM D 1505	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	2100 (28.8)	2100 (28.8)	2100 (28.8)	2100 (29.8)	2000 (28.4)	1900 (27.0)
		TD			2200 (31.3)	2200 (31.3)	2200 (31.3)	2200 (31.3)	2100 (29.8)	2000 (28.4)
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	0.50	0.50	0.50	0.50	0.50	0.50
		Dynamic			0.45	0.45	0.45	0.45	0.45	0.45
Thermal										
1	Shrinkage @ 150° C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	1.8	1.8
		TD			0.4	0.4	0.4	0.4	0.4	0.4
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	1.5	
Surface Treatment level										
1	Chemical side	Dynes/cm	ASTM D 2578	60	60	60	60	60	60	
2	Corona side			52	52	52	52	52	52	
Barrier										
1	W.V.T.R. (38°C & 90% RH)	gm/m ² /day (gm/100in ² /day)	ASTM E 96	50 (3.2)	40 (2.6)	40 (2.6)	22 (1.4)	15 (1.0)	10 (0.6)	
2	O.T.R. (23°C & 0%RH)	cc/m ² /day (cc/100in ² /day)	ASTM D 3985	110 (7.1)	100 (6.5)	100 (6.5)	70 (4.5)	50 (3.2)	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.

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 – A270

ARYAPET A270 Optically clear film suitable for Siliconising, Adhesive tape.

Sr. No.	Properties	Unit	Test Method	Typical Values					
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	9.52	7.14	5.71	
3	Density	gm/cc	ASTM D 1505	1.4	1.4	1.4	1.4	1.4	
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	0.50	0.45	0.45	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	1.6	1.6	1.6	1.4	1.4
		TD			0.0	0.0	0.0	0.0	0.0
2	Shrinkage @ 190° C/20'	MD	%	ASTM D 1204	3.0	3.0	3.0	3.0	3.0
		TD			0.0	0.0	0.0	0.0	0.0
3	Melting Point	°C	DSC	255	255	255	255	255	
Optical									
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.5	

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.

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 – A274

ARYAPET A274 Optically Clear both side coated with Anti-Fog properties after repeated cleaning with water suitable for Surgical Medical Mask and other applications.

Sr. No.	Properties	Unit	Test Method	Typical Values						
General										
1	Thickness	Micron (Gauge)	JBF Method	50 (200)	75 (300)	100 (400)	125 (500)	175 (700)	188 (752)	
2	Yield	M ² /Kg	JBF Method	14.30	9.52	7.14	5.71	4.08	3.80	
3	Density	gm/cc	ASTM D 1505	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	1900 (27.0)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1800 (25.5)	1900 (27.0)
		TD			2000 (28.4)	1900 (27.0)	1900 (27.0)	1900 (27.0)	1900 (27.0)	2000 (28.4)
2	Elongation at break	MD	%	ASTM D 882	110	110	120	120	130	110
		TD			100	100	110	110	120	100
3	Co-efficient of friction	Static	--	ASTM D 1894	0.35	0.35	0.35	0.35	0.35	0.35
		Dynamic			0.30	0.30	0.30	0.30	0.30	0.30
Thermal										
1	Shrinkage @ 150°C/30'	MD	%	ASTM D 1204	2.0	2.0	2.0	2.0	2.0	2.0
		TD			1.0	1.0	1.0	1.0	1.0	1.0
2	Melting Point	°C	DSC	255	255	255	255	255	255	
Optical										
1	Haze	%	ASTM D 1003	1.5	1.5	1.5	1.5	1.8	1.8	
2	Total Luminous transmission	--	ASTM D 1003	89	89	89	89	89	89	
Surface										
1	Surface Tension	Dyne/cm	ASTM D 2578	70+	70+	70+	70+	70+	70+	
2	Anti –Fog Test		Internal	Pass						

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.