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TECHNICAL SPECIFICATION SHEET (J-200)

DESCRIPTION:

Untreated Plain Bi-Axially Oriented Polyester Film

APPLICATIONS:

Packaging, Printing, Lamination and Metallization.

SALIENT FEATURES:

- Good Clarity
- Good Adhesion to Inks
- Excellent Machinability
- Excellent Mechanical and Thermal Properties
- Excellent for Printing and Lamination



TECHNICAL DATA					
PROPERTIES		TEST METHOD	UNIT	J-200	
PHYSICAL					
Thickness		ASTM D374	Micron	8	9
		ASTM D374	Gauge	32	36
Yield		JPFTM	m ² /kg	89.3	79.4
		JPFTM	in ² /lb	62700.0	55700.0
OPTICAL					
Haze (Max)		ASTM D1003	%	3.0	3.0
Total luminous transmittance		ASTM D1003	%	89	89
MECHANICAL					
Tensile Strength	(MD) Min	ASTM D882	kg/cm ²	2000	2000
	(MD) Min	ASTM D882	psi	28500	28500
	(TD) Min	ASTM D882	kg/cm ²	1900	1900
	(TD) Min	ASTM D882	psi	27000	27000
Elongation	(MD) Min	ASTM D882	%	90	90
	(TD) Min	ASTM D882	%	90	90
Coefficient of friction(Side-A/B)	St (Max)	ASTM D1894	-	0.55	0.55
	Dy (Max)	ASTM D1894	-	0.50	0.50
THERMAL					
Shrinkage (150°C/30 min)	(MD) Max	ASTM D1204	%	2.8	2.8
	(TD) Max	ASTM D1204	%	0.4	0.4
SURFACE					
Wetting Tension		ASTM D2578	Dyne/cm	44	44
BARRIER					
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m ² /day	75	65
		ASTM E398	g/100 inch ² /day	4.9	4.3
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m ² /day	175	150
		ASTM D3985	cc/100 inch ² /day	11.5	10

TECHNICAL DATA					
PROPERTIES		TEST METHOD	UNIT	J-200	
PHYSICAL					
Thickness		ASTM D374	Micron	10	12
		ASTM D374	Gauge	40	48
Yield		JPFTM	m ² /kg	71.4	59.5
		JPFTM	in ² /lb	50200.0	41800.0
OPTICAL					
Haze (Max)		ASTM D1003	%	3.5	3.5
Total luminous transmittance		ASTM D1003	%	89	89
MECHANICAL					
Tensile Strength	(MD) Min	ASTM D882	kg/cm ²	2000	2000
	(MD) Min	ASTM D882	psi	28500	28500
	(TD) Min	ASTM D882	kg/cm ²	1900	1900
	(TD) Min	ASTM D882	psi	27000	27000
Elongation	(MD) Min	ASTM D882	%	90	90
	(TD) Min	ASTM D882	%	90	90
Coefficient of friction(Side-A/B)	St (Max)	ASTM D1894	-	0.50	0.50
	Dy (Max)	ASTM D1894	-	0.45	0.45
THERMAL					
Shrinkage (150°C/30 min)	(MD) Max	ASTM D1204	%	2.8	2.8
	(TD) Max	ASTM D1204	%	0.4	0.4
SURFACE					
Wetting Tension		ASTM D2578	Dyne/cm	44	44
BARRIER					
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m ² /day	55	45
		ASTM E398	g/100 inch ² /day	3.6	3
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m ² /day	130	110
		ASTM D3985	cc/100 inch ² /day	8.5	7

TECHNICAL DATA					
PROPERTIES		TEST METHOD	UNIT	J-200	
PHYSICAL					
Thickness		ASTM D374	Micron	15	16
		ASTM D374	Gauge	60	64
Yield		JPFTM	m ² /kg	47.6	44.6
		JPFTM	in ² /lb	33500.0	31400.0
OPTICAL					
Haze (Max)		ASTM D1003	%	3.5	3.5
Total luminous transmittance		ASTM D1003	%	89	89
MECHANICAL					
Tensile Strength	(MD) Min	ASTM D882	kg/cm ²	2000	2000
	(MD) Min	ASTM D882	psi	28500	28500
	(TD) Min	ASTM D882	kg/cm ²	1900	1900
	(TD) Min	ASTM D882	psi	27000	27000
Elongation	(MD) Min	ASTM D882	%	90	90
	(TD) Min	ASTM D882	%	90	90
Coefficient of friction(Side-A/B)	St (Max)	ASTM D1894	-	0.50	0.50
	Dy (Max)	ASTM D1894	-	0.45	0.45
THERMAL					
Shrinkage (150°C/30 min)	(MD) Max	ASTM D1204	%	2.8	2.8
	(TD) Max	ASTM D1204	%	0.4	0.4
SURFACE					
Wetting Tension		ASTM D2578	Dyne/cm	44	44
BARRIER					
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m ² /day	38	35
		ASTM E398	g/100 inch ² /day	2.5	2.3
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m ² /day	90	80
		ASTM D3985	cc/100 inch ² /day	5.8	5.2

TECHNICAL DATA					
PROPERTIES		TEST METHOD	UNIT	J-200	
PHYSICAL					
Thickness		ASTM D374	Micron	19	23
		ASTM D374	Gauge	76	92
Yield		JPFTM	m ² /kg	37.5	31.0
		JPFTM	in ² /lb	26300.0	21800.0
OPTICAL					
Haze (Max)		ASTM D1003	%	3.5	4.0
Total luminous transmittance		ASTM D1003	%	89	89
MECHANICAL					
Tensile Strength	(MD) Min	ASTM D882	kg/cm ²	2000	2000
	(MD) Min	ASTM D882	psi	28500	28500
	(TD) Min	ASTM D882	kg/cm ²	1900	1900
	(TD) Min	ASTM D882	psi	27000	27000
Elongation	(MD) Min	ASTM D882	%	90	90
	(TD) Min	ASTM D882	%	90	90
Coefficient of friction(Side-A/B)	St (Max)	ASTM D1894	-	0.50	0.50
	Dy (Max)	ASTM D1894	-	0.45	0.45
THERMAL					
Shrinkage (150°C/30 min)	(MD) Max	ASTM D1204	%	2.8	2.8
	(TD) Max	ASTM D1204	%	0.4	0.4
SURFACE					
Wetting Tension		ASTM D2578	Dyne/cm	44	44
BARRIER					
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m ² /day	35	28
		ASTM E398	g/100 inch ² /day	2.3	1.8
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m ² /day	80	70
		ASTM D3985	cc/100 inch ² /day	5.2	4.5

TECHNICAL DATA					
PROPERTIES		TEST METHOD	UNIT	J-200	
PHYSICAL					
Thickness		ASTM D374	Micron	25	36
		ASTM D374	Gauge	100	144
Yield		JPFTM	m ² /kg	28.6	19.8
		JPFTM	in ² /lb	20100.0	13900.0
OPTICAL					
Haze (Max)		ASTM D1003	%	4.0	4.0
Total luminous transmittance		ASTM D1003	%	89	89
MECHANICAL					
Tensile Strength	(MD) Min	ASTM D882	kg/cm ²	1900	1900
	(MD) Min	ASTM D882	psi	27000	27000
	(TD) Min	ASTM D882	kg/cm ²	1800	1800
	(TD) Min	ASTM D882	psi	25600	25600
Elongation	(MD) Min	ASTM D882	%	100	100
	(TD) Min	ASTM D882	%	90	90
Coefficient of friction(Side-A/B)	St (Max)	ASTM D1894	-	0.50	0.50
	Dy (Max)	ASTM D1894	-	0.45	0.45
THERMAL					
Shrinkage (150°C/30 min)	(MD) Max	ASTM D1204	%	2.8	2.8
	(TD) Max	ASTM D1204	%	0.4	0.4
SURFACE					
Wetting Tension		ASTM D2578	Dyne/cm	44	44
BARRIER					
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m ² /day	28	22
		ASTM E398	g/100 inch ² /day	1.8	1.4
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m ² /day	70	50
		ASTM D3985	cc/100 inch ² /day	4.5	3.2

TECHNICAL DATA				
PROPERTIES		TEST METHOD	UNIT	J-200
PHYSICAL				
Thickness		ASTM D374	Micron	50
		ASTM D374	Gauge	200
Yield		JPFTM	m ² /kg	14.0
		JPFTM	in ² /lb	10000.0
OPTICAL				
Haze (Max)		ASTM D1003	%	4.0
Total luminous transmittance		ASTM D1003	%	89
MECHANICAL				
Tensile Strength	(MD) Min	ASTM D882	kg/cm ²	1900
	(MD) Min	ASTM D882	psi	27000
	(TD) Min	ASTM D882	kg/cm ²	1800
	(TD) Min	ASTM D882	psi	25600
Elongation	(MD) Min	ASTM D882	%	100
	(TD) Min	ASTM D882	%	90
Coefficient of friction(Side-A/B)	St (Max)	ASTM D1894	-	0.50
	Dy (Max)	ASTM D1894	-	0.45
THERMAL				
Shrinkage (150°C/30 min)	(MD) Max	ASTM D1204	%	2.8
	(TD) Max	ASTM D1204	%	0.4
SURFACE				
Wetting Tension		ASTM D2578	Dyne/cm	44
BARRIER				
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m ² /day	18
		ASTM E398	g/100 inch ² /day	1.2
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m ² /day	30
		ASTM D3985	cc/100 inch ² /day	2

The values given in this technical datasheet are typical performance data and are believed to be accurate. These are given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. JINDAL POLY FILMS LIMITED suggests the customer to confirm these values and product compatibility prior to their use and the company offers neither guarantee nor accepts any responsibility for the fitness of the product for any particular use.

JPFTM: JINDAL POLY FILMS TEST METHOD, **MD:** MACHINE DIRECTION, **TD:** TRANSVERSE DIRECTION

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