Plot No. – 12, Sector B1, Local Shopping Complex, Vasant Kunj,

New Delhi - 110 070 (INDIA).

Tel: 0091-11-26139256 - 265, Fax: 0091-11-26125739

Web site: www.jindalpoly.com

TECHNICAL SPECIFICATION SHEET (J-201M0)

DESCRIPTION: Normal density metallised bi-axially oriented polyester film; Metallised on corona surface to enhance the metal adhesion and other side plain.

APPLICATIONS: Suitable for flexible packaging application, especially for higher gloss and barrier properties. **SALIENT FEATURES:**

- Good Metal Bond Strength
- Good Water Vapour and Gas Barrier properties
- Good Lamination Bond Strength
- Excellent Machinability

			TECHNICAL DATA		
PROPERTIES		TEST METHOD	UNIT	J-201M0	
PHYSICAL					
Thickness		ASTM D 374	Micron (Gauge)	08 (32)	9 (36)
Yield		JPFTM	$m^2/kg (in^2/lb)$	89.2 (62700)	79.3 (55750)
OPTICAL					
*Optical Density		By Tobias make Instrument	%	2.2 <u>+</u> 5%	2.2 ± 5%
BOND STRENGTH					
Metal to PET Bond Strength		JPFTM	g /inch	200	200
MECHANICAL			•		
Tensile strength (Mir	MD	- ASTM D 882	Kg/cm ² (psi)	1900 (27000)	1900 (27000)
Tensile strength (Min	TD		Kg/cm ² (psi)	1900 (27000)	1900 (27000)
Elongation (Min)	MD	ASTM D 882	%	90	90
Elongation (Min	^{''} TD		%	90	90
Coefficient of Friction	St	ASTM D 1894	_	0.75	0.75
(Metal to film) (Max) Dy	ASTWID 1094	_	0.70	0.70
THERMAL					
Shrinkage (MA		ASTM D 1204	%	2.8	2.8
(150°C / 30 min)	TD	ASTM D 1204	%	0.4	0.4
SURFACE			T		
Wetting tension (Pre Metallized surface) (Min)		ASTM D 2578	dyne/cm	54	54
BARRIER					
WVTR (38 °C & 90% RH)	(Max)	ASTM E-398	$g / m^2 / day$ $(g / 100 inch^2 / day)$	1.50 (0.10)	1.5 (0.10)
OTR (23 °C & 0% RH)	(Max)	ASTM D 3985	$\frac{\text{cc / m}^2/\text{ day}}{(\text{cc / }100\text{ inch}^2/\text{ day})}$	2.0 (0.13)	2.0 (0.13)
WVTR (38 °C & 90% RH)	. ,		$\frac{(g/100 \operatorname{inch}^2/\operatorname{day})}{\operatorname{cc}/\operatorname{m}^2/\operatorname{day}}$	` ′	`

^{*}These properties can be changed to meet the specific requirements of the customer.

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

WORKS:

28 - KM, Stone, Nashik - Igatpuri Road, Village : Mundegaon, Maharashtra

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TECHNICAL SPECIFICATION SHEET (J-201M0)

DESCRIPTION: Normal density metallised bi-axially oriented polyester film; Metallised on corona surface to enhance the metal adhesion and other side plain.

APPLICATIONS: Suitable for flexible packaging application, especially for higher gloss and barrier properties. **SALIENT FEATURES:**

- Good Metal Bond Strength
- Good Water Vapour and Gas Barrier properties
- Good Lamination Bond Strength
- Excellent Machinability

				L DATA	
PROPERTIES		TEST METHOD	UNIT	J-201M0	
PHYSICAL					
Thickness		ASTM D 374	Micron (Gauge)	10 (40)	12 (48)
Yield		JPFTM	$m^2/kg (in^2/lb)$	71.4 (50200)	59.5 (41800)
OPTICAL					
*Optical Density		By Tobias make Instrument	%	2.2 <u>+</u> 5%	2.2 ± 5%
BOND STRENGTH					
Metal to PET Bond Strength		JPFTM	g /inch	200	200
MECHANICAL					
Tensile strength (Min)	MD	ASTM D 882	Kg/cm ² (psi)	2000 (28500)	2000 (28500)
Tensile strength (Min)	TD		Kg/cm ² (psi)	1900 (27000)	1900 (27000)
Elongation (Min)	MD	ASTM D 882	%	90	90
Elongation (Min)	TD		%	90	90
Coefficient of Friction	St	- ASTM D 1894	_	0.75	0.75
(Metal to film) (Max)	Dy		_	0.70	0.70
THERMAL					
Shrinkage (MAX)	MD	ASTM D 1204	%	2.8	2.8
(150°C / 30 min)	TD	ASTWID 1204	%	0.4	0.4
SURFACE					
Wetting tension (Pre Metallized surface) (Min)		ASTM D 2578	dyne/cm	54	54
BARRIER					
WVTR (38 °C & 90% RH)	(Max)	ASTM E-398	g / m2 / day $(g / 100 inch2 / day)$	1.20 (0.08)	1.00 (0.065)
OTR (23 °C & 0% RH)	(Max)	ASTM D 3985	$\frac{\text{cc }/\text{ m}^2/\text{ day}}{(\text{cc }/\text{ 100 inch}^2/\text{ day})}$	1.50 (0.10)	1.20 (0.08)

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APPLICATIONS: Suitable for flexible packaging application, especially for higher gloss and barrier properties. **SALIENT FEATURES:**

- Good Metal Bond Strength
- Good Water Vapour and Gas Barrier properties
- Good Lamination Bond Strength
- **Excellent Machinability**

TECHNICAL					AL DATA	
PROPERTIES		TEST	UNIT	J-201M0		
PHYSICAL						
Thickness		ASTM D 374	Micron (Gauge)	19 (75)	23 (92)	
Yield		JPFTM	$m^2/kg (in^2/lb)$	37.5 (26500)	31 (21800)	
OPTICAL						
*Optical Density		By Tobias make Instrument	%	2.2 <u>+</u> 5%	2.2 <u>+</u> 5%	
BOND STRENGTH						
Metal Bond Strength		JPFTM	g /inch	200	200	
MECHANICAL						
Topoile strongth (Min)	MD	ASTM D 882	Kg/cm ² (psi)	2000 (28500)	1900 (27000)	
Tensile strength (Min)	TD		Kg/cm ² (psi)	1900 (27000)	1800 (25600)	
Elongation (Min)	MD	- ASTM D 882	%	90	90	
	TD		%	90	90	
Coefficient of Friction	St	ASTM D 1894	_	0.70	0.70	
(Metal to film) (Max)	Dy	ASTM D 1894	_	0.65	0.65	
THERMAL						
Shrinkage (MAX)	MD	ASTM D 1204	%	2.8	2.8	
(150°C / 30 min)	TD	ASTM D 1204	%	0.4	0.4	
SURFACE						
Wetting tension (Pre Metallized surface) (Min)		ASTM D 2578	dyne/cm	54	54	
BARRIER		,				
WVTR (38 °C & 90% RH) (Max)		ASTM E-398	g / m2 / day $(g / 100 inch2 / day)$	0.90 (0.060)	0.80 (0.055)	
OTR (23 °C & 0% RH) (Max)		ASTM D 3985	$\frac{\text{cc } / \text{m}^2 / \text{day}}{(\text{cc } / 100 \text{ inch}^2 / \text{day})}$	1.20 (0.08)	1.00 (0.065)	

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- Good Water Vapour and Gas Barrier properties
- Good Lamination Bond Strength
- Excellent Machinability

				TECHNICAL DATA		
PROPERTIES		TEST	UNIT	J-201M0		
PHYSICAL						
Thickness		ASTM D 374	Micron (Gauge)	36 (144)	50 (200)	
Yield		JPFTM	$m^2/kg (in^2/lb)$	19.8 (13900)	14.2 (10000)	
OPTICAL						
*Optical Density		By Tobias make Instrument	%	2.2 <u>+</u> 5%	2.2 <u>+</u> 5%	
BOND STRENGTH						
Metal Bond Strength		JPFTM	g /inch	200	150	
MECHANICAL						
Tensile strength (Min)	MD	ASTM D 882	Kg/cm ² (psi)	1900 (27000)	1800 (25600)	
	TD		Kg/cm ² (psi)	1800 (25600)	1800 (25600)	
Florenties (Min)	MD	ASTM D 882	%	90	90	
Elongation (Min)	TD		%	90	90	
Coefficient of Friction	St	ASTM D 1894	ı	0.70	0.70	
(Metal to film) (Max)	Dy	ASTM D 1094	ı	0.65	0.65	
THERMAL						
Shrinkage (MAX)	MD	ASTM D 1204	%	2.8	2.8	
(150°C / 30 min)	TD	ASTM D 1204	%	0.4	0.4	
SURFACE						
Wetting tension (Pre Metallized surface) (Min)		ASTM D 2578	dyne/cm	54	54	
BARRIER						
WVTR (38 °C & 90% RH) (Max)		ASTM E-398	$\frac{g / m^2 / day}{(g / 100 inch^2 / day)}$	0.80 (0.055)	0.80 (0.055)	
OTR (23 °C & 0% RH) (Max)		ASTM D 3985	$\frac{\text{cc / m}^2/\text{ day}}{(\text{cc / }100\text{ inch}^2/\text{ day})}$	1.0 (0.065)	1.00 (0.065)	

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