HEAD OFFICE:
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-231M3)

DESCRIPTION: Normal density Metallised bi-axially oriented polyester film; Metallised on plain surface and other side chemically pre-treated.

APPLICATIONS: Suitable for flexible packaging application, chemical treated side is suitable for printing.

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-231M3	
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 ± 5%	2.2 ± 5%
BOND STRENGTH					
Metal to PET Bond Strength		JPFTM	g /inch	150	150
MECHANICAL					
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm^2 (psi)	2000 (28500)	2000 (28500)
	TD		Kg/cm^2 (psi)	1900 (27000)	1900 (27000)
Elongation (Min)	MD	ASTM D 882	%	90	90
	TD		%	90	90
Coefficient of Friction (Metal to film) (Max)	St	ASTM D 1894	–	0.75	0.75
	Dy		–	0.70	0.70
THERMAL					
Shrinkage (MAX) (150^{0}C / 30 min)	MD	ASTM D 1204	%	2.8	2.8
	TD		%	0.4	0.4
SURFACE					
Wetting tension (Pre-Metallized surface) (Min)		ASTM D 2578	dyne/cm	44	44
Wetting tension (coated surface) (Min)		ASTM D 2578	dyne/cm	42	42
BARRIER					
WVTR (38 ^{0}C & 90% RH) (Max)		ASTM E 398	g / m^2/ day (g / 100 $inch^2$/ day)	1.20 (0.08)	1.00 (0.065)
OTR (23 ^{0}C & 0% RH) (Max)		ASTM D 3985	cc / m^2/ day (cc / 100 $inch^2$/ day)	1.50 (0.10)	1.20 (0.08)

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

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

WORKS:
28 - KM, Stone, Nashik - Igatpuri Road,
Village : Mundegaon, Maharashtra
Phone : + 91 2553 229100, 231002 / 3 / 5
Fax: + 91 2553 231004

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TECHNICAL DATA

PROPERTIES		TEST METHOD	UNIT	J-231M3	
PHYSICAL					
Thickness		ASTM D 374	Micron (Gauge)	23 (92)	
Yield		JPFTM	m^2/kg (in^2 /lb)	31 (21800)	
OPTICAL					
*Optical Density		By Tobias make Instrument	%	2.2 ± 5%	
BOND STRENGTH					
Metal to PET Bond Strength		JPFTM	g /inch	150	
MECHANICAL					
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm^2 (psi)	1900 (27000)	
	TD		Kg/cm^2 (psi)	1800 (25600)	
Elongation (Min)	MD	ASTM D 882	%	90	
	TD		%	90	
Coefficient of Friction (Metal to film) (Max)	St	ASTM D 1894	_	0.75	
	Dy		_	0.70	
THERMAL					
Shrinkage (MAX) (150^{0}C / 30 min)	MD	ASTM D 1204	%	2.8	
	TD		%	0.4	
SURFACE					
Wetting tension (Pre-Metallized surface) (Min)		ASTM D 2578	dyne/cm	44	
Wetting tension (coated surface) (Min)		ASTM D 2578	dyne/cm	42	
BARRIER					
WVTR (38 ^{0}C & 90% RH) (Max)		ASTM E 398	g / m^2/ day (g / 100 $inch^2$/ day)	0.8 (0.052)	
OTR (23 ^{0}C & 0% RH) (Max)		ASTM D 3985	cc / m^2/ day (cc / 100 $inch^2$/ day)	1.00 (0.065)	

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

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