

**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 ^o 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 ^o 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 ^o 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.

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

WORKS:

28 - KM, Stone, Nashik - Igatpuri Road,
Village : Mundegaon, Maharashtra
Phone : + 91 2553 229100, 231002 / 3 / 5
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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°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 °C & 90% RH) (Max)		ASTM E 398	g / m ² / day (g / 100 inch ² / day)	0.8 (0.052)	
OTR (23 °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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