

**HEAD OFFICE:**

Plot No. – 12, Sector B1, Local Shopping Complex, Vasant Kunj,  
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Tel: 0091-11-26139256 – 265, Fax: 0091-11-26125739  
Web site: www.jindalpoly.com

**TECHNICAL SPECIFICATION SHEET (J-221M0)**

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

**APPLICATIONS:** Suitable for flexible packaging application where good barrier and high metal bond is required, film is not recommended for liquid / sterilization application

**SALIENT FEATURES:**

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

**TECHNICAL DATA**

PROPERTIES	TEST METHOD	UNIT	J-221M0		
<b>PHYSICAL</b>					
Thickness	ASTM D 374	Micron (Gauge)	10 (40)	12 (48)	
Yield	JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	71.4 (50200)	59.5 (41800)	
<b>OPTICAL</b>					
* Optical Density	By Tobias make Instrument	%	2.2 ± 5%	2.2 ± 5%	
<b>BOND STRENGTH</b>					
Metal to PET Bond Strength	JPFTM	g /inch	400	400	
<b>MECHANICAL</b>					
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm <sup>2</sup> (psi)	2000 (28500)	2000 (28500)
	TD		Kg/cm <sup>2</sup> (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
<b>THERMAL</b>					
Shrinkage (MAX) (150 <sup>o</sup> C / 30 min)	MD	ASTM D 1204	%	2.8	2.8
	TD		%	0.4	0.4
<b>SURFACE</b>					
Wetting tension (Pre-Metallised surface)	ASTM D 2578	dyne/cm	56	56	
<b>BARRIER</b>					
WVTR (38 <sup>o</sup> C & 90% RH) (Max)	ASTM E-398	g / m <sup>2</sup> / day (g / 100 inch <sup>2</sup> / day)	1.20 (0.08 )	1.00 (0.065)	
OTR (23 <sup>o</sup> C & 0% RH) (Max)	ASTM D 3985	cc / m <sup>2</sup> / day (cc / 100 inch <sup>2</sup> / 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:**

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**TECHNICAL DATA**

PROPERTIES	TEST METHOD	UNIT	J-221M0
<b>PHYSICAL</b>			
Thickness	ASTM D 374	Micron (Gauge)	23 (92)
Yield	JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	31 (21800)
<b>OPTICAL</b>			
*Optical Density	By Tobias make Instrument	%	2.2 ± 5%
<b>BOND STRENGTH</b>			
Metal to PET Bond Strength	JPFTM	g /inch	400
<b>MECHANICAL</b>			
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm <sup>2</sup> (psi)
	TD		Kg/cm <sup>2</sup> (psi)
Elongation (Min)	MD	ASTM D 882	%
	TD		%
Coefficient of Friction (Metal to film) (Max)	St	ASTM D 1894	–
	Dy		–
<b>THERMAL</b>			
Shrinkage (150°C / 30 min) (MAX)	MD	ASTM D 1204	%
	TD		%
<b>SURFACE</b>			
Wetting tension (Pre-Metallised surface)	ASTM D 2578	dyne/cm	56
<b>BARRIER</b>			
WVTR (38 °C & 90% RH) (Max)	ASTM E-398	g / m <sup>2</sup> / day (g / 100 inch <sup>2</sup> / day)	0.8 (0.052)
OTR (23 °C & 0% RH) (Max)	ASTM D 3985	cc / m <sup>2</sup> / day (cc / 100 inch <sup>2</sup> / day)	1.00 (0.065)

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

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