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**TECHNICAL SPECIFICATION SHEET (J-221M4)**

**DESCRIPTION:** High-density Metallized bi-axially oriented polyester film; Metallised on pre-coated co polyester surface and other side plain. Metallization on coated surface enhance metal adhesion.

**APPLICATIONS:** Suitable for flexible packaging application where high barrier and high metal bond is required

**SALIENT FEATURES:**

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

				<b>TECHNICAL DATA</b>	
<b>PROPERTIES</b>		<b>TEST METHOD</b>	<b>UNIT</b>	<b>J-221M4</b>	
<b>PHYSICAL</b>					
Thickness		ASTM D 374	Micron (Gauge)	12 (48)	
Yield		JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	59.5 (41800)	
<b>OPTICAL</b>					
* Optical Density		By Tobias make Instrument	%	2.8 ± 6%	
<b>BOND STRENGTH</b>					
Metal to PET Bond Strength		JPFTM	g /inch	350	
<b>MECHANICAL</b>					
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm <sup>2</sup> (psi)	2000 (28500)	
	TD		Kg/cm <sup>2</sup> (psi)	1900 (27000)	
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	
<b>THERMAL</b>					
Shrinkage At 150°C / 30 min. (Max)	MD	ASTM D 1204	%	2.8	
	TD		%	0.4	
<b>SURFACE</b>					
Wetting tension (Metallised surface)		ASTM D 2578	dyne/cm	54	
<b>BARRIER</b>					
WVTR (38 °C & 90% RH)	(Max)	ASTM E 1249	g / m <sup>2</sup> / day (g / 100 inch <sup>2</sup> / day)	0.6 (0.04)	
OTR (23 °C & 0% RH)	(Max)	ASTM D 3985	cc / m <sup>2</sup> / day (cc / 100 inch <sup>2</sup> / day)	0.8 (0.052)	

\*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

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