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

**DESCRIPTION:** J-221 grade of film is a transparent, one side co-polyester pre-coated and other side plain bi-axially oriented polyester film; film complies with FDA and EC regulations.

**APPLICATIONS:** Suitable for metallization and flexible packaging, film specially designed for many flexible packaging applications require high bond strength.

**SALIENT FEATURES:**

- Excellent Adhesion of Inks and Adhesive
- Significant improved metal adhesion when metallized on treated side
- Excellent Machinability
- Excellent Mechanical and thermal Properties

				<b>TECHNICAL DATA</b>	
PROPERTIES		TEST METHOD	UNIT	J221	
<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>					
Haze (Max)		ASTM D 1003	%	3.5	
Total Luminous Transmission		ASTM D 1003	%	89	
<b>MECHANICAL</b>					
Tensile strength (Min)	MD	ASTM D 882	Kg/cm <sup>2</sup> (psi)	2000 (28500)	
	TD	ASTM D 882	Kg/cm <sup>2</sup> (psi)	1900 (27000)	
Elongation (Min)	MD	ASTM D 882	%	90	
	TD	ASTM D 882	%	90	
Coefficient of friction (Side-A / B) (Max)	St	ASTM D 882	–	0.50	
	Dy	ASTM D 882	–	0.45	
<b>THERMAL</b>					
Shrinkage (150°C / 30 min) (MAX)	MD	ASTM D 1204	%	2.8	
	TD		%	0.4	
<b>SURFACE</b>					
Wetting tension (Treated side)		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)	45 (3.0)	
OTR (23 °C & 0% RH) (Max)		ASTM D 3985	cc / m <sup>2</sup> / day (cc / 100 inch <sup>2</sup> / day)	110 (7.0)	

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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