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**PROVISIONAL TECHNICAL SPECIFICATION SHEET (J-281M5)**

**DESCRIPTION:** Metallized high barrier polyester film. Metallized on pre-coated chemical surface and other side non-treated. Metallization on chemical coated surface offer high metal adhesion performance.

**APPLICATIONS:** Suitable for flexible packaging application where high barrier and high metal bond is required. Film is suitable for hot fill applications.

**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-281M5</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	%	3.0 ± 6%	
<b>BOND STRENGTH</b>					
Metal to PET Bond Strength		JPFTM	g /inch	600	
<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	—	0.70
		Dy		—	0.65
<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-398	g / m <sup>2</sup> / day (g / 100 inch <sup>2</sup> / day)	0.3 (0.020)	
OTR (23 °C & 0% RH) (Max)		ASTM D 3985	cc / m <sup>2</sup> / day (cc / 100 inch <sup>2</sup> / day)	0.4 (0.027)	

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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