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**TECHNICAL SPECIFICATION SHEET (J-451)**

**DESCRIPTION:** J-451 grade polyester film is a clear and one side corona treated transparent film. Film has excellent dimensional stability at higher operating temperature.

**APPLICATIONS:**

- Metallic and plain yarn application
- Stamping foil
- Transfer metallising and tension coating operations

**SALIENT FEATURES:**

- High clarity and transparency
- Excellent Machinability
- Dimensionally stable at high operating temperatures.
- Excellent mechanical properties

<b>TECHNICAL DATA</b>						
PROPERTIES		TEST METHOD	UNIT	J- 451		
<b>PHYSICAL</b>						
*Thickness		ASTM D 374	Micron (Gauge)	12 (48)	23 (92)	36 (144)
Yield		JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	59.5 (41800)	31 (21800)	19.8 (13900)
<b>OPTICAL</b>						
Haze		ASTM D 1003	%	3.0	3.0	3.5
Total Luminous Transmission		ASTM D 1003	%	89	89	89
<b>MECHANICAL</b>						
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm <sup>2</sup> (psi)	2200 (31300)	2000 (28500)	2000 (28500)
	TD		Kg/cm <sup>2</sup> (psi)	1900 (27000)	1900 (27000)	1900 (27000)
F 5 (Min)	MD	ASTM D 882	Kg/cm <sup>2</sup> (psi)	1050 (14900)	1000 (14200)	1000 (14200)
	TD		Kg/cm <sup>2</sup> (psi)	950 (13500)	950 (13500)	950 (13500)
Elongation (Min)	MD	ASTM D 882	%	90	90	100
	TD		%	90	90	100
Coefficient of friction (Side-A / B) (Max)	St	ASTM D 1894	–	0.60	0.60	0.55
	Dy		–	0.50	0.50	0.45
<b>THERMAL</b>						
Shrinkage (190°C / 5 Min) (Max)	MD	ASTM D 1204	%	4.0	4.0	4.0
	TD		%	Nil	Nil	Nil
<b>SURFACE</b>						
Wetting tension (Min)		ASTM D 2578	dyne/cm	52	52	52

\* Other thickness can be offer as per customer requirement

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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