

**HEAD OFFICE:**

Plot No. – 12, Sector B1, Local Shopping Complex, Vasant Kunj,  
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**TECHNICAL SPECIFICATION SHEET (J-405)**

**DESCRIPTION:** J-405 grade of polyester film is a hazy and both side untreated bi-axially oriented polyester film. Film is thermally stable.

**APPLICATIONS:**

- Flexible packaging applications
- Electrical applications (wire and cable insulation)
- FRP / GRP applications
- General purpose use and other industrial applications

**SALIENT FEATURES:**

- Excellent Machinability
- Excellent Mechanical and thermal Properties

**TECHNICAL DATA**

PROPERTIES	TEST METHOD	UNIT	J- 405			
<b>PHYSICAL</b>						
Thickness	ASTM D 374	Micron (Gauge)	19 (76)	23 (92)	25 (100)	
Yield	JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	37.5 (26400)	31 (21800)	28.5 (20000)	
<b>OPTICAL</b>						
Haze	ASTM D 1003	%	4 ~ 5	4 ~ 5	4 ~ 5	
Total Luminous Transmission	ASTM D 1003	%	88	88	88	
<b>MECHANICAL</b>						
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm <sup>2</sup> (psi)	2000 (28500)	2000 (28500)	2000 (28500)
	TD		Kg/cm <sup>2</sup> (psi)	1900 (27000)	1900 (27000)	1900 (27000)
Elongation (Min)	MD	ASTM D 882	%	90	90	90
	TD		%	90	90	90
Coefficient of friction (Side-A / B) (Max)	St	ASTM D 1894	–	0.50	0.50	0.50
	Dy		–	0.45	0.45	0.45
<b>THERMAL</b>						
Shrinkage (150°C / 30 Min) (Max)	MD	ASTM D 1204	%	2.0	2.0	2.0
	TD		%	0.0	0.0	0.0
Shrinkage (190°C / 20 Min) (Max)	MD	ASTM D 1204	%	4.5	4.5	4.5
	TD		%	0.0	0.0	0.0
<b>SURFACE</b>						
Wetting tension (Min)	ASTM D 2578	dyne/cm	44	44	44	
<b>ELECTRICAL</b>						
Break Down Voltage	ASTM D-149	KV	4.5	6.0	6.0	
Volume Resistivity	ASTM D-256	Ohm cm	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>	

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- 405			
<b>PHYSICAL</b>						
Thickness	ASTM D 374	Micron (Gauge)	30 (120)	36 (144)	50 (200)	
Yield	JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	23.8 (16700)	19.8 (13900)	14 (10000)	
<b>OPTICAL</b>						
Haze	ASTM D 1003	%	4 ~ 5	5 ~ 6	6 ~ 7	
Total Luminous Transmission	ASTM D 1003	%	88	88	88	
<b>MECHANICAL</b>						
Tensile Strength (Min)	MD	ASTM D 882	Kg/cm <sup>2</sup> (psi)	2000 (28500)	1900 (27000)	1900 (27000)
	TD		Kg/cm <sup>2</sup> (psi)	1900 (27000)	1800 (25600)	1800 (25600)
Elongation (Min)	MD	ASTM D 882	%	90	100	100
	TD		%	90	100	100
Coefficient of friction (Side-A / B) (Max)	St	ASTM D 1894	–	0.50	0.50	0.50
	Dy		–	0.45	0.45	0.45
<b>THERMAL</b>						
Shrinkage (150°C / 30 Min) (Max)	MD	ASTM D 1204	%	1.8	1.6	1.6
	TD		%	0.0	0.0	0.0
Shrinkage (190°C / 20 Min) (Max)	MD	ASTM D 1204	%	4.5	4.5	4.5
	TD		%	0.0	0.0	0.0
<b>SURFACE</b>						
Wetting tension (Min)	ASTM D 2578	dyne/cm	44	44	44	
<b>ELECTRICAL</b>						
Break Down Voltage	ASTM D-149	KV	7.0	7.5	9.5	
Volume Resistivity	ASTM D-256	Ohm cm	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>	

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