

**HEAD OFFICE:**

Plot No. – 12, Sector B1, Local Shopping Complex, Vasant Kunj,  
New Delhi - 110 070 (INDIA).  
Tel: 0091-11-26139256 – 265, Fax: 0091-11-26125739  
Web site: [www.jindalpoly.com](http://www.jindalpoly.com)

**TECHNICAL SPECIFICATION SHEET (J-470)**

**DESCRIPTION:** J470 (JPELN) is co extruded tough milky white film having excellent surface and good electrical property.

**APPLICATIONS:** Suitable for insulation in rotating electrical machine and other general application.

**SALIENT FEATURES:**

- Tough flexibility to prevent delamination.
- Good insulation property
- Excellent Machinability
- Excellent Mechanical Properties
- Excellent Dimensional Stability

			TECHNICAL DATA		
Properties		Test method	Unit	J-470	
PHYSICAL					
Thickness		ASTM D-374	Micron (Gauge)	75 (300)	100 (400)
Yield		JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	9.5(6670)	7.1(4990)
OPTICAL					
Haze		ASTM D-1003	%	60	65
Total luminous transmittance		ASTM D-1003	%	85	80
MECHANICAL					
Tensile strength (Min)	MD	ASTM D-882	Kg/cm <sup>2</sup> (psi)	1700 (24200)	1700 (24200)
	TD	ASTM D-882	Kg/cm <sup>2</sup> (psi)	1700 (24200)	1700 (24200)
Elongation (Min)	MD	ASTM D-882	%	120	120
	TD	ASTM D-882	%	100	100
Coefficient of friction (Side-A / B) (Max)	St	ASTM D-1894	-	0.35	0.35
	Dy	ASTM D-1894	-	0.30	0.30
THERMAL					
Shrinkage (Max) (150°C / 30 min)	MD	ASTM D-1204	%	2.5	2.5
	TD	ASTM D-1204	%	1.5	1.5
Electrical					
Break Down Voltage		ASTM D-149	KV	13	15
Volume Resistivity		ASTM D-256	Ohm cm	10^16	10^16

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:**

28 - KM, Stone, Nashik - Igatpuri Road,  
Village : Mundegaon, Maharashtra  
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TECHNICAL DATA						
Properties		Test method	Unit	J-470		
PHYSICAL						
Thickness		ASTM D-374	Micron (Gauge)	125 (500)	190 (760)	225 (900)
Yield		JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	5.7 (4000)	3.7 (2600)	3.2(2225)
OPTICAL						
Haze		ASTM D-1003	%	70	80	85
Total luminous transmittance		ASTM D-1003	%	75	71	68
MECHANICAL						
Tensile strength (Min)	MD	ASTM D-882	Kg/cm <sup>2</sup> (psi)	1700 (24200)	1700 (24200)	1700 (24200)
	TD	ASTM D-882	Kg/cm <sup>2</sup> (psi)	1700 (24200)	1700 (24200)	1700 (24200)
Elongation (Min)	MD	ASTM D-882	%	120	120	120
	TD	ASTM D-882	%	100	100	100
Coefficient of friction (Side-A / B) (Max)	St	ASTM D-1894	-	0.35	0.35	0.35
	Dy	ASTM D-1894	-	0.30	0.30	0.30
THERMAL						
Shrinkage (Max) (150°C / 30 min)	MD	ASTM D-1204	%	2.5	2.5	2.5
	TD	ASTM D-1204	%	1.5	1.5	1.5
Electrical						
Break Down Voltage		ASTM D-149	KV	17	20	21
Volume Resistivity		ASTM D-256	Ohm cm	10^16	10^16	10^16

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			TECHNICAL DATA			
Properties		Test method	Unit	J-470		
PHYSICAL						
Thickness		ASTM D-374	Micron (Gauge)	250 (1000)	300 (1200)	350 (1400)
Yield		JPFTM	m <sup>2</sup> /kg (in <sup>2</sup> /lb)	2.9 (2040)	2.5 (1760)	2.1 (1440)
OPTICAL						
Haze		ASTM D-1003	%	90	95	100
Total luminous transmittance		ASTM D-1003	%	67	65	63
MECHANICAL						
Tensile strength (Min)	MD	ASTM D-882	Kg/cm <sup>2</sup> (psi)	1600 (22800)	1600 (22800)	1600 (22800)
	TD	ASTM D-882	Kg/cm <sup>2</sup> (psi)	1600 (22800)	1600 (22800)	1600 (22800)
Elongation (Min)	MD	ASTM D-882	%	140	150	150
	TD	ASTM D-882	%	120	130	130
Coefficient of friction (Side-A / B) (Max)	St	ASTM D-1894	-	0.35	0.35	0.35
	Dy	ASTM D-1894	-	0.30	0.30	0.30
THERMAL						
Shrinkage (Max) (150°C / 30 min)	MD	ASTM D-1204	%	2.5	2.5	2.5
	TD	ASTM D-1204	%	1.5	1.5	1.5
Electrical						
Break Down Voltage		ASTM D-149	KV	22	24	26
Volume Resistivity		ASTM D-256	Ohm cm	10^16	10^16	10^16

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