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## TECHNICAL DATA SHEET OPP FILMS

**TRANSPARENT NON HEAT SEALABLE  
METALLISED**

**JS10/12/15/17/18/20/25N1-MD**

### STRUCTURAL CONFIGURATION



- PLASMA TREATED METALLISED SKIN
- MODIFIED TRANSPARENT INNER SKIN
- TRANSPARENT CORE
- MODIFIED TRANSPARENT INNER SKIN
- UNTREATED NON HEAT SEALABLE SKIN

### APPLICATIONS :

- LAMINATION WITH PAPER / PAPER BOARD FOR VARIOUS APPLICATIONS LIKE DISPOSABLE PAPER PLATES, FILE COVERS, LEAFLATS ETC.
- GIFT WRAPPING APPLICATIONS
- OTHER DECORATIVE APPLICATIONS

### DESCRIPTION :

One Side Metallised, Other Side Non Heat Sealable OPP Film for use in Lamination with Paper / Paper Board, Gift Wrapping and Decorative Application. The film exhibits excellent water vapour and gas barrier properties. Metallised side is specifically designed for excellent surface treatment retention behaviour as well as very good anchorage with Inks during printing.

### SALIENT FEATURES :

- Excellent Surface Gloss on Metallised Side
- Very Good Water Vapour and Gas Barrier Properties
- Excellent Adhesion of Aluminium
- Very Good Anchorage of Inks on Metallised Side
- Very Good Metal Bond Strength
- Excellent Machinability

TECHNICAL DATA										
PROPERTIES	TEST METHOD	UNIT	JS10N1-MD	JS12N1-MD	JS15N1-MD	JS17N1-MD	JS18N1-MD	JS20N1-MD	JS25N1-MD	
<b>PHYSICAL</b>										
Thickness	ASTM D 374	Micron	10	12	15	17	18	20	25	
Grammage	JPFTM	gm/m <sup>2</sup>	9.1	10.9	13.5	15.5	16.4	18.2	22.7	
Yield	JPFTM	m <sup>2</sup> /kg	109.0	91.5	74.0	64.5	61.0	55.0	44.0	
<b>SURFACE</b>										
Treatment Level – Metallised Side	ASTM D 2578	dyne/cm	38	38	38	38	38	38	38	
<b>OPTICAL</b>										
Optical Density (Min)	ASTM D 1003	%	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
<b>MECHANICAL</b>										
Coefficient of Friction (Max)	ASTM D 1894	Static	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
		Kinetic	0.48	0.48	0.48	0.48	0.48	0.48	0.48	
Tensile Strength (Min)	ASTM D 882	kg/cm <sup>2</sup>	MD	1300	1300	1350	1400	1400	1400	1500
			TD	2500	2500	2550	2650	2650	2650	3000
Modulus (Min)	ASTM D 882	kg/cm <sup>2</sup>	MD	17000	17000	17500	18000	18000	18000	19000
			TD	28000	28000	28500	29000	29000	29000	30000
Elongation (Max)	ASTM D 882	%	MD	160	160	160	150	150	150	150
			TD	60	60	60	50	50	50	50
<b>THERMAL</b>										
Shrinkage (Max) at 120°C / 5 min	JPFTM	%	MD	4.5	4.5	4.0	3.5	3.5	3.5	3.5
			TD	2.5	2.5	2.0	1.5	1.5	1.5	1.5
Seal Initiation Temperature (Max)	JPFTM	°C	-	-	-	-	-	-	-	
Sealing Strength (Min) at 120°C / 2 Bar	JPFTM	gms/25mm	-	-	-	-	-	-	-	
<b>BARRIER</b>										
Water Vapour Transmission Rate	ASTM E 398	gm/m <sup>2</sup> /24h	1.0	0.90	0.70	0.50	0.50	0.48	0.40	
Oxygen Gas Transmission Rate	ASTM D 3985	cc/m <sup>2</sup> /24h	130	115	90	80	80	75	68	

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 accept any responsibility for the fitness of the product for any particular use.

JPFTM : JINDAL POLY FILMS TEST METHOD, MD : MACHINE DIRECTION, TD : TRANSVERSE DIRECTION