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## TECHNICAL DATA SHEET OPP FILMS

ONE SIDE METALLISED OTHER SIDE NON  
HEAT SEALABLE CORONA TREATED

JS15/18/20/25/30N2-MD

### STRUCTURAL CONFIGURATION



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

### APPLICATIONS :

NON HEAT SEALABLE METALLISED FILM FOR SANDWICH LAYER IN THREE PLY LAMINATE PACKAGING STRUCTURE.

### DESCRIPTION :

One Side Metallised, Other Side Corona Treated Non Heat Sealable OPP Film for use as Sandwich Layer in Three Ply Laminate Packaging Structure. The film exhibits excellent water vapour and gas barrier properties. During metallisation process film is treated with plasma for enhancing metal adhesion and barrier properties. Metallised side is specifically designed for excellent surface treatment retention behaviour as well as very good anchorage with lamination adhesives. The corona treated non heat sealable side is also designed for excellent anchoring to lamination adhesive.

### SALIENT FEATURES :

- Excellent Surface Gloss on Metallised Side
- Excellent Water Vapour and Gas Barrier Properties
- Excellent Adhesion of Aluminium
- Very Good Anchorage of Lamination Adhesive on Metallised Side as well as Corona Treated Side
- Very Good Metal Bond Strength
- Very Good Lamination Bond Strength
- Excellent Machinability

TECHNICAL DATA							
PROPERTIES	TEST METHOD	UNIT	JS15N2-MD	JS18N2-MD	JS20N2-MD	JS25N2-MD	JS30N2-MD
<b>PHYSICAL</b>							
Thickness	ASTM D 374	Micron	15	18	20	25	30
Grammage	JPFTM	gm/m <sup>2</sup>	13.5	16.4	18.2	22.7	27.3
Yield	JPFTM	m <sup>2</sup> /kg	74.0	60.9	55.0	44.0	36.6
<b>SURFACE</b>							
Treatment Level (Min) Metallised Side / Non Metallised Side	ASTM D 2578	dyne/cm	38 / 38	38 / 38	38 / 38	38 / 38	38 / 38
<b>OPTICAL</b>							
Optical Density (Min)	JPFTM	%	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
		Kinetic	0.48	0.48	0.48	0.48	0.48
Tensile Strength (Min)	ASTM D 882	kg/cm <sup>2</sup> MD	1350	1400	1400	1500	1500
		TD	2550	2650	2650	3000	3000
Modulus (Min)	ASTM D 882	kg/cm <sup>2</sup> MD	17500	18000	18000	19000	19000
		TD	28500	29000	29000	30000	30000
Elongation (Max)	ASTM D 882	% MD	160	150	150	150	150
		TD	60	50	50	50	50
<b>THERMAL</b>							
Shrinkage (Max) at 120°C / 5 min	JPFTM	% MD	4.0	3.5	3.5	3.5	3.5
		TD	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	0.70	0.50	0.48	0.40	0.35
Oxygen Gas Transmission Rate	ASTM D 3985	cc/m <sup>2</sup> /24h	90	80	75	68	58

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