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## TECHNICAL DATA SHEET OPP FILMS

ONE SIDE METALLISED OTHER SIDE HEAT SEALABLE VERY HIGH BARRIER

JS15/18/20/25/30/35/40H1-MDV

### STRUCTURAL CONFIGURATION



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

### APPLICATIONS :

VERY HIGH BARRIER HEAT SEALABLE METALLISED FILM FOR SINGLE / TWO PLY PACKAGING STRUCTURE AND MODIFIED ATMOSPHERIC PACKAGING.

### DESCRIPTION :

Very High Barrier, One Side Metallised, Other Side Heat Sealable OPP Film for use in Single / Two Ply Packaging Structure. The film exhibits very high water vapour and gas barrier properties. During metallisation process film is treated with plasma for improving 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 untreated heatsealable side exhibits excellent hot-tack and seal strength.

### SALIENT FEATURES :

- Very High Water Vapour and Gas Barrier Properties
- Excellent Surface Gloss on Metallised Side
- Excellent Adhesion of Aluminium on Treated Side
- Very Good Anchorage of Lamination Adhesive on Metallised Side
- Very Good Metal Bond Strength
- Very Good Lamination Bond Strength
- Excellent Machinability
- Very Good Hot-Tack and Seal Strength

TECHNICAL DATA										
PROPERTIES	TEST METHOD	UNIT	JS15H1-MDV	JS18H1-MDV	JS20H1-MDV	JS25H1-MDV	JS30H1-MDV	JS35H1-MDV	JS40H1-MDV	
<b>PHYSICAL</b>										
Thickness	ASTM D 374	Micron	15	18	20	25	30	35	40	
Grammage	JPFTM	gm/m <sup>2</sup>	13.7	16.4	18.2	22.7	27.3	31.8	36.4	
Yield	JPFTM	m <sup>2</sup> /kg	73.0	60.9	55.0	44.0	36.6	31.4	27.4	
<b>SURFACE</b>										
Treatment Level (Min) - Metallised Side	ASTM D 2578	dyne/cm	38	38	38	38	38	38	38	
<b>OPTICAL</b>										
Optical Density (Min)	JPFTM	-	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
<b>MECHANICAL</b>										
Coefficient of Friction (Max)	ASTM D 1894	Static	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
		Kinetic	0.38	0.38	0.38	0.38	0.38	0.38	0.38	
Tensile Strength (Min)	ASTM D 882	kg/cm <sup>2</sup>	MD	1400	1400	1400	1500	1500	1500	1500
			TD	2650	2650	2650	3000	3000	3000	3000
Modulus (Min)	ASTM D 882	kg/cm <sup>2</sup>	MD	16000	18000	18000	19000	19000	19000	19000
			TD	27000	29000	29000	30000	30000	30000	30000
Elongation (Max)	ASTM D 882	%	MD	180	160	160	150	150	150	150
			TD	70	60	60	50	50	50	50
<b>THERMAL</b>										
Shrinkage (Max) at 120°C / 5 min	JPFTM	%	MD	3.5	3.5	3.5	3.5	3.5	3.5	3.5
			TD	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Seal Initiation Temperature (Max)	JPFTM	°C	115	115	115	118	118	120	120	
Sealing Strength (Min) at 120°C / 2 Bar / 1 Sec	JPFTM	gms/25mm	450	450	450	450	450	450	450	
<b>BARRIER</b>										
Water Vapour Transmission Rate	ASTM E 398	gm/m <sup>2</sup> /24h	0.25	0.20	0.18	0.16	0.15	0.10	0.05	
Oxygen Gas Transmission Rate	ASTM D 3985	cc/m <sup>2</sup> /24h	20	18	15	12	10	8	6	

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