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# TECHNICAL DATA SHEET OPP FILMS

**METALLISED HIGH HEAT SEAL STRENGTH  
HIGH HOT TACK**

**JS18/20/25/30/35/40SP-MD**

## STRUCTURAL CONFIGURATION



- PLASMA TREAT ED METALLISED SKIN
- MODIFIED TRANSPARENT INNER SKIN
- TRANSPARENT CORE
- MODIFIED TRANSPARENT INNER SKIN
- HIGH HEAT SEAL STRENGTH SKIN

**APPLICATIONS :**

HIGH HEAT SEAL STENGTH SEALABLE METALLISED FILM FOR SINGLE / TWO PLY PACKAGING STRUCTURE. IDEAL REPLACEMENT OF METALLISED CPP.

**DESCRIPTION :**

One Side Metallised, Other Side High Heat Seal Strength Sealable OPP Film for Use in Single / Two Ply Packaging Structure. Speciality of this Film is Very High Sealing Strength and Outstanding Hot Tack Properties. Due to the Excellent Sealing Characteristics, this film can be well used for Replacement of Metallised CPP in Two Ply Laminating Structure. Also this film exhibits excellent water vapour and gas barrier properties compare to Metallised CPP. 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.

**SALIENT FEATURES :**

- Very High Sealing Strength and Outstanding Hot Tack Properties
- Excellent Surface Gloss on Metallised Side
- Very Good Water Vapour and Gas Barrier Properties
- Excellent Adhesion of Aluminium
- 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 SHEET

PROPERTIES	TEST METHOD	UNIT	JS18SP-MD	JS20SP-MD	JS25SP-MD	JS30SP-MD	JS35SP-MD	JS40SP-MD
<b>PHYSICAL</b>								
Thickness	ASTM D 374	Micron	18	20	25	30	35	40
Grammage	JPFTM	gm/m <sup>2</sup>	16.4	18.2	22.8	27.3	31.9	36.4
Yield	JPFTM	m <sup>2</sup> /kg	61.0	55.0	44.0	36.6	31.4	27.5
<b>OPTICAL</b>								
Optical Densityl (Min)	JPFTM	-	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
		Kinetic	0.48	0.48	0.48	0.48	0.48	0.48
Tensile Strength (Min)	ASTM D 882	MD	1300	1300	1300	1300	1300	1300
		TD	2700	2700	2700	2700	2700	2700
Modulus (Min)	ASTM D 882	MD	18000	18000	18000	18000	18000	18000
		TD	28000	28000	28000	28000	28000	28000
Elongation (Max)	ASTM D 882	MD	190	190	190	190	190	190
		TD	70	70	70	70	70	70
<b>THERMAL</b>								
Shrinkage (Max) at 120 <sup>0</sup> C / 5 min	JPFTM	MD	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
Seal Initiation Temperature (Max)	JPFTM	°C	115	115	115	115	115	115
Sealing Strength (Min) at 120 C / 2 Bar / 1 Sec	JPFTM	gms/25mm	1100	1200	1200	1300	1350	1400
<b>BARRIER</b>								
Water Vapour Transmission Rate	ASTM E 398	gm/ m <sup>2</sup> /24h	0.54	0.48	0.40	0.35	0.25	0.15
Oxygen Gas Transmission Rate	ASTM D 3985	cc/m <sup>2</sup> /24h	85	75	68	58	40	30

The values provided in the Technical Data Sheet are typical performance data and are believed to be accurate. These are given in good faith, but users are advised to conduct their own tests on representative samples and not on the actual product dispatched. JINDAL POLY FILMS LIMITED doesn't guarantee or warranty typical values and fitness for its use for a specific purpose. The user is solely responsible for all determinations by the application of this information or the safety and suitability of our products, either alone or in combination with other products.

#### Storage & Handling:

It is a fact that dyne level decays over time in BOPP films and the decay is further aggravated with extreme environmental conditions. If film rolls are to be stored for a long time, it is preferable to maintain a constant, preferably low temperature (below 30°C) and a low humidity (below 70% RH) to maximize shelf life of the product & to minimize dyne level decay.

Use of in-line 'corona treatment booster' or a 'primer' is advisable in metallised films for good adhesion.

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