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# TECHNICAL DATA SHEET OPP FILMS

**ONE SIDE METALLISED OTHER SIDE ULTRA  
LOW SIT HEAT SEALABLE HIGH BARRIER**

**JS15/18/20/25/28/30/35/40H1-UDB**

## STRUCTURAL CONFIGURATION



- PLASMA TREATED METALLISED SKIN
- MODIFIED TRANSPARENT INNER SKIN
- TRANSPARENT CORE
- MODIFIED TRANSPARENT INNER SKIN
- UNTREATED ULTRA LOW SIT HEAT SEAL SKIN

## APPLICATIONS :

ULTRA LOW SIT HEAT SEALABLE HIGH BARRIER METALLISED FILM FOR SINGLE / TWO PLY PACKAGING STRUCTURE FOR VERY HIGH SPEED PACKAGING APPLICATIONS.

## DESCRIPTION :

One Side Metallised, Other Side Ultra Low SIT Heat Sealable High Barrier OPP Film for use in Single / Two Ply Packaging Structure for High Speed Packaging Machines. The film exhibits excellent 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 ultra low SIT heat sealable side exhibits excellent hot-tack and seal strength.

## SALIENT FEATURES :

- Ultra Low SIT Heat Sealable Skin with Excellent Hot-tack and Seal Strength
- Excellent Surface Gloss on Metallised Side
- Very High 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	JS15H1-UDB	JS18H1-UDB	JS20H1-UDB	JS25H1-UDB	JS30H1-UDB	JS35H1-UDB	JS40H1-UDB
<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	22.8	27.3	31.9	36.4
Yield	JPFTM	m <sup>2</sup> /kg	73.0	61.0	55.0	44.0	36.6	31.4	27.5
<b>OPTICAL</b>									
Optical Densityl (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	MD	1300	1300	1300	1300	1300	1300	1300
		TD	2700	2700	2700	2700	2700	2700	2700
Modulus (Min)	ASTM D 882	MD	18000	18000	18000	18000	18000	18000	18000
		TD	28000	28000	28000	28000	28000	28000	28000
Elongation (Max)	ASTM D 882	MD	190	190	190	190	190	190	190
		TD	70	70	70	70	70	70	70
<b>THERMAL</b>									
Shrinkage (Max) at 120 <sup>o</sup> C / 5 min	JPFTM	MD	4.5	3.5	3.5	3.5	3.5	3.5	3.5
		TD	2.5	1.5	1.5	1.5	1.5	1.5	1.5
Seal Initiation Temperature (Max)	JPFTM	°C	95	95	95	95	95	95	95
Sealing Strength (Min) at 120 <sup>o</sup> C / 2 Bar / 1 Sec	JPFTM	gms/25mm	450	475	500	550	575	600	650
<b>BARRIER</b>									
Water Vapour Transmission Rate	ASTM E 398	gm/ m <sup>2</sup> /24h	0.25	0.20	0.18	0.16	0.14	0.10	0.08
Oxygen Gas Transmission Rate	ASTM D 3985	cc/m <sup>2</sup> /24h	40	30	27	25	20	20	20

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