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TECHNICAL DATA SHEET
OPP FILMS

ONE SIDE METALLISED OTHER SIDE LOW SIT HEAT SEALABLE

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

STRUCTURAL CONFIGURATION

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

APPLICATIONS :

LOW SIT HEAT SEALABLE METALLISED FILM FOR SINGLE / TWO PLY PACKAGING STRUCTURE FOR HIGH SPEED PACKAGING APPLICATION.

DESCRIPTION :

One Side Metallised, Other Side Low SIT Heat Sealable 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 metal isation 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 low SIT heat sealable side exhibits excellent hot-tack and seal strength.

SALIENT FEATURES :

- Low SIT Heat Sealable Skin with Excellent Hot-tack and Seal Strength
- 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	JS15H1 LMD	JS18H1 LMD	JS20H1-LMD	JS25H1-LMD	JS30H1 LMD	JS35H1 LMD	JS40H1-LMD
PHYSICAL									
Thickness	ASTM D 374	Micron	15	18	20	25	30	35	40
Grammage	JPFTM	gm/m²	13.7	16.4	18.2	22.8	27.3	31.9	36.4
Yield	JPFTM	m² /kg	73.0	61.0	55.0	44.0	36.6	31.4	27.5
OPTICAL									
Optical Densityl (Min)	JPFTM	-	2.0	2.0	2.0	2.0	2.0	2.0	2.0
MECHANICAL									
Coefficient of Friction – Max. (Untreated / Untreated)	ASTM D 1894	Kinetic	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Tensile Strength	ASTM D 882	kg/cm² MD	1250	1250	1250	1250	1250	1250	1250
		kg/cm² TD	2700	2700	2700	2700	2700	2700	2700
Modulus	ASTM D 882	kg/cm² MD	18000	18000	18000	18000	18000	18000	18000
		kg/cm² TD	28000	28000	28000	28000	28000	28000	28000
Elongation	ASTM D 882	% MD	210	210	210	210	210	210	210
		% TD	70	70	70	70	70	70	70
THERMAL									
Shrinkage at 120º 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	JPFTM	°C	105	105	105	106	106	107	107
Sealing Strength (Min) at 120º C / 2 Bar / 1 Sec	JPFTM	gms/25mm	450	475	500	550	575	600	650
BARRIER									
Water Vapour Transmission Rate	ASTM E 398-03	gm/ m² /24h	**<0.80**						
Oxygen Gas Transmission Rate	ASTM D 3985	cc/m² /24h	**<80**						

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