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TECHNICAL DATA SHEET
OPP FILMS

ONE SIDE METALLISED OTHER SIDE NON HEAT SEALABLE CORONA TREATED

JS15/18/20/25/30/35N2-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 excel ent water vapour and gas barrier properties. During metal isation process film is treated with plasma for enhancing metal adhesion and barrier properties. Metal ised 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 wel as Corona Treated Side
- Very Good Metal Bond Strength
- Very Good Lamination Bond Strength
- Excellent Machinability

TECHNICAL DATA SHEET

PROPERTIES	TEST METHOD	UNIT	JS15N2-MD	JS18N2-MD	JS20N2-MD	JS25N2-MD	JS30N2-MD	JS35N2-MD
PHYSICAL								
Thickness	ASTM D 374	Micron	15	18	20	25	30	35
Grammage	JPFTM	gm/m^2	13.7	16.4	18.2	22.75	27.3	31.85
Yield	JPFTM	m^2/kg	73.0	61.0	54.9	44.0	36.6	31.4
SURFACE								
Treatment level – Non Metallised side (Min.)	ASTM D2578	Dyne/cm	38	38	38	38	38	38
OPTICAL								
Optical Density (Min)	JPFTM	-	2.0	2.0	2.0	2.0	2.0	2.0
MECHANICAL								
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 kg/cm^2	1300	1300	1300	1300	1300	1300
		TD	2700	2700	2700	2700	2700	2700
Modulus (Min)	ASTM D 882	MD kg/cm^2	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
THERMAL								
Shrinkage (Max) at 120^0C / 5 min	JPFTM	MD %	4.0	3.5	3.5	3.5	3.5	3.5
		TD	2.0	1.5	1.5	1.5	1.5	1.5
Seal Initiation Temperature (Max)	JPFTM	°C	-	-	-	-	-	-
Sealing Strength (Min) at 120^0C / 2 Bar / 1 Sec	JPFTM	gms/25mm	-	-	-	-	-	-
BARRIER								
Water Vapour Transmission Rate	ASTM E 398	$gm/m^2/24h$	0.7	0.5	0.48	0.40	0.35	0.30
Oxygen Gas Transmission Rate	ASTM D 3985	$cc/m^2/24h$	90	80	75	68	58	52

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