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TECHNICAL DATA SHEET OPP FILMS

HIGH BARRIER WHITE CAVITATED ONE SIDE METALLISED OTHER SIDE HEAT SEALABLE

JS25/30/35/38/40/50H1-PDB

STRUCTURAL CONFIGURATION

-- PLASMA TREATED HIGH BARRIER METALLISED SKIN
-- MODIFIED INNER SKIN
-- MODIFIED WHITE CAVITATED CORE
-- MODIFIED INNER SKIN
-- UNTREATED LOW HEAT SEALABLE SKIN

APPLICATIONS :

HIGH BARRIER WHITE CAVITATED HEAT SEALABLE METALLISED FILM FOR SINGLE / TWO PLY PRINTING LAMINATION APPLICATION (FOR ICE CREAM PACKAGING, LABELS, HIGH VALUE FOOD PACKAGING ETC).

DESCRIPTION :

High Barrier White Cavitated 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 Inks and lamination adhesives. The untreated heat sealable side exhibits excellent hot-tack and seal strength.

SALIENT FEATURES :

- Very High Water Vapour and Gas Barrier Properties
- Excellent Opacity
- One Side Brilliant Pearlicent White Appearance and Other Side Brilliant Metallic Lustre
- Very High Surface Gloss
- Low Seal Initiation Temperature
- Excellent Hot Tack and Heat Seal Strength
- Excellent Surface Treatment Retention on Metallised Side
- Excellent Anchorage of Inks and Lamination Adhesive on Metallised Side
- Excellent Machinability
- Suitable for Various Printing / Lamination Machines

TECHNICAL DATA SHEET

PROPERTIES	TEST METHOD	UNIT	JS25H1-PDB	JS30H1-PDB	JS35H1-PDB	JS38H1-PDB	JS40H1-PDB	JS50H1-PDB
PHYSICAL								
Thickness	ASTM D 374	Micron	25	30	35	38	40	50
Grammage	JPFTM	gm/m^2	17.5	21.0	24.5	26.6	28.0	35.0
Yield	JPFTM	m^2/kg	57.1	47.6	40.8	37.6	35.5	28.5
OPTICAL								
Opacity (Min)	CIE	%	80	85	90	90	95	95
Optical Density (Min)	JPFTM	-	3.2	3.3	3.4	3.4	3.6	3.6
Gloss (Min) at 45° angle	ASTM D2457	-	55	55	55	50	50	50
MECHANICAL								
Coefficient of Friction (Max)	ASTM D 1894	Static	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
Tensile Strength (Min)	ASTM D 882	kg/cm^2 MD	750	750	750	750	750	750
		kg/cm^2 TD	1300	1300	1300	1300	1300	1300
Modulus (Min)	ASTM D 882	kg/cm^2 MD	13000	13000	13000	13000	13000	13000
		kg/cm^2 TD	22000	22000	22000	22000	22000	22000
Elongation (Max)	ASTM D 882	% MD	160	160	160	160	160	160
		% TD	40	40	40	40	40	40
THERMAL								
Shrinkage (Max) at 120^0 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	110	110	110	110	110	110
Sealing Strength (Min) at 120^0 C / 2 Bar / 1 Sec	JPFTM	gms/25mm	400	450	475	525	575	600
BARRIER								
Water Vapour Transmission Rate	ASTM E 398	$gm/m^2/24h$	0.30	0.25	0.22	0.20	0.17	0.15
Oxygen Gas Transmission Rate	ASTM D 3985	$cc/m^2/24h$	46	38	32	30	26	22

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