



JINDAL POLY FILMS LTD.



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**TECHNICAL DATA SHEET
OPP FILMS**

**TRANSPARENT NON HEAT SEALABLE
METALLISED**

JS9/10/15/17/18/20/25N1-MD

STRUCTURAL CONFIGURATION



- **PLASMA TREATED METALLISED SKIN**
- **MODIFIED TRANSPARENT INNER SKIN**
- **TRANSPARENT CORE**
- **MODIFIED TRANSPARENT INNER SKIN**
- **UNTREATED NON HEAT SEALABLE SKIN**

APPLICATIONS :

- LAMINATION WITH PAPER / PAPER BOARD FOR VARIOUS APPLICATIONS LIKE DISPOSABLE PAPER PLATES, FILE COVERS, LEAFLATS ETC.
- GIFT WRAPPING APPLICATIONS
- OTHER DECORATIVE APPLICATIONS

DESCRIPTION :

One Side Metallised, Other Side Non Heat Sealable OPP Film for use in Lamination with Paper / Paper Board, Gift Wrapping and Decorative Application. The film exhibits excellent water vapour and gas barrier properties. Metallised side is specifically designed for excellent surface treatment retention behaviour as well as very good anchorage with Inks during printing.

SALIENT FEATURES :

- Excellent Surface Gloss on Metallised Side
- Very Good Water Vapour and Gas Barrier Properties
- Excellent Adhesion of Aluminium
- Very Good Anchorage of Inks on Metallised Side
- Very Good Metal Bond Strength
- Excellent Machinability



TECHNICAL DATA SHEET

PROPERTIES	TEST METHOD	UNIT	JS9N1-MD	JS10N1-MD	JS15N1-MD	JS17N1-MD	JS18N1-MD	JS20N1-MD	JS25N1-MD
PHYSICAL									
Thickness	ASTM D 374	Micron	9	10	15	17	18	20	25
Grammage	JPFTM	gm/m ²	8.2	9.1	13.7	15.5	16.4	18.2	22.8
Yield	JPFTM	m ² /kg	121.9	109.9	73.0	64.5	61.0	54.9	43.9
OPTICAL									
Optical Density I (Min)	JPFTM	-	2.0	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	0.50
		Kinetic	0.48	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	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
THERMAL									
Shrinkage (Max) at 120°C / 5 min	JPFTM	MD	4.5	4.5	4.0	3.5	3.5	3.5	3.5
		TD	2.5	2.5	2.0	1.5	1.5	1.5	1.5
Seal Initiation Temperature (Max)	JPFTM	°C	-	-	-	-	-	-	-
Sealing Strength (Min) at 120°C / 2 Bar / 1 Sec	JPFTM	gms/25mm	-	-	-	-	-	-	-
BARRIER									
Water Vapour Transmission Rate	ASTM E 398	gm/ m ² /24h	1.1	1.0	0.7	0.5	0.5	0.48	0.40
Oxygen Gas Transmission Rate	ASTM D 3985	cc/m ² /24h	140	130	90	80	80	75	68

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