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# TECHNICAL DATA SHEET OPP FILMS

**TRANSPARENT HEAT SEALABLE ONE SIDE  
CORONA TREATED METALLISABLE**

**JS15/18/20/25/30/35/40H1-MZ**

## STRUCTURAL CONFIGURATION



- METAL RECEPTIVE CORONA TREATED SKIN
- MODIFIED TRANSPARENT INNER SKIN
- TRANSPARENT CORE
- MODIFIED TRANSPARENT INNER SKIN
- UNTREATED HEAT SEALABLE SKIN

**APPLICATIONS :**

HEAT SEALABLE BASE FILM FOR ALUMINIUM VACUUM METALLISATION

**DESCRIPTION :**

Transparent, Heat Sealable, One Side Corona Treated OPP Base Film for Vacuum Metalisation Application. The corona treated side is specifically designed with metal receptive material for excellent adhesion of aluminium on the surface during metallisation. The untreated heatsealable side exhibits excellent hot-tack and seal strength.

**SALIENT FEATURES :**

- High Surface Gloss and Transparency
- Excellent Surface Treatment Retention
- Excellent Adhesion of Aluminium on Treated Side
- Excellent Machinability
- Excellent Mechanical Properties
- Excellent Dimensional Stability
- Very Good Hot-Tack and Seal Strength



# TECHNICAL DATA SHEET

PROPERTIES	TEST METHOD	UNIT	JS15H1-MZ	JS18H1-MZ	JS20H1-MZ	JS25H1-MZ	JS30H1-MZ	JS35H1-MZ	JS40H1-MZ
<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	22.7	27.3	31.8	36.4
Yield	JPFTM	m <sup>2</sup> /kg	73.0	60.9	55.0	44.0	36.6	31.4	27.4
<b>Surface</b>									
Treatment Level (Min)	ASTM D2578	dyne/cm	40	40	40	40	40	40	40
<b>Optical</b>									
Haze (Max)	ASTM D1003	%	2.0	2.0	2.0	2.0	2.0	2.2	2.2
Gloss (Min) at 45° Angle	ASTM D2457	-	90	90	90	90	90	90	90
<b>MECHANICAL</b>									
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
<b>THERMAL</b>									
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	115	115	115	115	115	115	115
Sealing Strength (Min) at 120°C / 2 Bar / 1 Sec	JPFTM	gms/25mm	400	425	450	475	500	525	550
<b>BARRIER</b>									
Water Vapour Transmission Rate	ASTM E 398	gm/ m <sup>2</sup> /24h	7.0	6.5	6.0	5.0	4.0	3.0	2.5
Oxygen Gas Transmission Rate	ASTM D 3985	cc/m <sup>2</sup> /24h	2000	1850	1800	1700	1600	1500	1450

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.

JPFTM : JINDAL POLY FILMS TEST METHOD, MD : MACHINE DIRECTION, TD : TRANSVERSE DIRECTION