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# TECHNICAL DATA SHEET OPP FILMS

TRANSPARENT HIGH HEAT SEAL STRENGTH HIGH HOT TACK ONE SIDE CORONA TREATED FOR VERY HIGH BARRIER METALLISED FILM

**JS18/20/25/30/35/40SP-MZV**

## STRUCTURAL CONFIGURATION



- METAL RECEPTIVE CORONA TREATED SKIN
- MODIFIED TRANSPARENT INNER SKIN
- TRANSPARENT MODIFIED CORE
- MODIFIED TRANSPARENT INNER SKIN
- UNTREATED HIGH HEAT SEAL STRENGTH HIGH HOTTACK SKIN

## APPLICATIONS :

HIGH HEAT SEAL STRENGTH HIGH HOTTACK BASE FILM FOR VERY HIGH BARRIER ALUMINIUM VACUUM METALLISED FILM

## DESCRIPTION :

Transparent, High Heat Seal Strength High Hottack, One Side Corona Treated ,Very High Barrier film for Vacuum Metalised 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 very high hot-tack and seal strength.

## SALIENT FEATURES :

- High Surface Gloss and Transparency
- Very High Heat Seal Strength and High Hottack
- Very High Oxygen and Moisture Barrier after Metallisation
- 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								
PROPERTIES	TEST METHOD	UNIT	JS18SP-MZV	JS20SP-MZV	JS25SP-MZV	JS30SP-MZV	JS35SP-MZV	JS40SP-MZV
<b>PHYSICAL</b>								
Thickness	ASTM D 374	Micron	18	20	25	30	35	35
Grammage	JPFTM	gm/m <sup>2</sup>	16.4	18.2	22.7	27.3	31.8	31.8
Yield	JPFTM	m <sup>2</sup> /kg	60.9	55.0	44.0	36.6	31.4	31.4
<b>SURFACE</b>								
Treatment Level – Metallisable Side (Min)	ASTM D 2578	dyne/cm	40	40	40	40	40	40
<b>OPTICAL</b>								
Haze (Max)	ASTM D 1003	%	2.0	2.0	2.0	2.0	2.0	2.0
Gloss (Min) at 45° Angle	ASTM D 2457	-	94	94	94	94	94	94
<b>MECHANICAL</b>								
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	kg/cm <sup>2</sup> MD	1400	1400	1500	1500	1500	1500
		TD	2650	2650	3000	3000	3000	3000
Modulus (Min)	ASTM D 882	kg/cm <sup>2</sup> MD	18000	18000	19000	19000	19000	19000
		TD	29000	29000	30000	30000	30000	30000
Elongation (Max)	ASTM D 882	% MD	160	160	150	150	150	150
		TD	60	60	50	50	50	50
<b>THERMAL</b>								
Shrinkage (Max) at 120°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	115	115	118	118	120	120
Sealing Strength (Min) at 120°C / 2 Bar / 1 Sec	JPFTM	gms/25mm	1000	1000	1000	1000	1000	1000
<b>BARRIER</b>								
Water Vapour Transmission Rate	ASTM E 398	gm/m <sup>2</sup> /24h	6.5	6.0	5.0	4.0	3.0	2.0
Oxygen Gas Transmission Rate	ASTM D 3985	cc/m <sup>2</sup> /24h	1000	900	800	750	700	650

The values given in this technical datasheet are typical performance data and are believed to be accurate. These are given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. JINDAL POLY FILMS LIMITED suggests the customer to confirm these values and product compatibility prior to their use and the company offers neither guarantee nor accept any responsibility for the fitness of the product f or any particular use.