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TECHNICAL DATA SHEET OPP FILMS

H1

STRUCTURAL CONFIGURATION



- Corona treated heat sealable skin
- Transparent Core
- Untreated heat sealable skin

APPLICATIONS:

Transparent, both side heat sealable one side corona treated film for single/two ply printing lamination application

DESCRIPTION:

Transparent, both side Heat Sealable, One Side Corona Treated OPP Film with Excellent Barrier, Clarity, Slip and Antistatic Properties for Single / Two Ply printing laminate application. The Corona treated side is specifically designed for Excellent Adhesion of Inks and Lamination Adhesive during conversion. Both the sides exhibit Excellent hot-tack and Seal Strength.

SALIENT FEATURES:

- Excellent Hot-Tack and Seal Strength on Both Sides
- High Surface Gloss and Transparency
- Very Good Barrier Properties
- Excellent Slip and Antistatic Properties
- Excellent Surface Treatment Retention
- Excellent Adhesion of Inks and Adhesive on Treated Side
- Excellent Machinability
- Excellent Mechanical Properties
- Excellent Dimensional Stability

TECHNICAL DATA					
PROPERTIES		TEST METHOD	UNIT	15 to 50 H1	
PHYSICAL					
Thickness		ASTM D374	Micron	15	18
Yield		JPFTM	m ² /kg	73.00	60.90
Grammage		JPFTM	gm/m ²	13.7	16.4
OPTICAL					
Haze (Max)		ASTM D1003	%	1.8	1.8
Gloss at 45°		ASTM D2457	-	88	88
MECHANICAL					
Tensile Strength	(MD) Min	ASTM D882	kg/cm ²	1250	1250
	(TD) Min	ASTM D882	kg/cm ²	2700	2700
Elongation	(MD)	ASTM D882	%	210	210
	(TD)	ASTM D882	%	70	70
COF Max (Untreated or lower tr/Untreated or lower tr)		ASTM D1894	kinetic	0.34	0.34
THERMAL					
Shrinkage (120°C/5min)	(MD)	JPFTM	%	4.5	4.5
	(TD)	JPFTM	%	2.5	2.5
Seal Initiation temperature		JPFTM	°C	105	105
Sealing strength (120°C/2Bar/1Sec)		JPFTM	gms/25mm	400	425
SURFACE					
Treatment level		ASTM D2578	Dyne/cm	39	39
BARRIER					
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m ² /day	7	6.5
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m ² /day	2000	1850
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 accepts any responsibility for the fitness of the product for any particular use.					

TECHNICAL DATA					
PROPERTIES		TEST METHOD	UNIT	15 to 50 H1	
PHYSICAL					
Thickness		ASTM D374	Micron	20	25
Yield		JPFTM	m ² /kg	55.00	44.05
Grammage		JPFTM	gm/m ²	18.2	22.7
OPTICAL					
Haze (Max)		ASTM D1003	%	1.9	2.0
Gloss at 45°		ASTM D2457	-	88	88
MECHANICAL					
Tensile Strength	(MD) Min	ASTM D882	kg/cm ²	1250	1250
	(TD) Min	ASTM D882	kg/cm ²	2700	2700
Elongation	(MD)	ASTM D882	%	210	210
	(TD)	ASTM D882	%	70	70
COF Max (Untreated or lower tr/Untreated or lower tr)		ASTM D1894	kinetic	0.34	0.34
THERMAL					
Shrinkage (120°C/5min)	(MD)	JPFTM	%	3.5	3.5
	(TD)	JPFTM	%	1.5	1.5
Seal Initiation temperature		JPFTM	°C	105	106
Sealing strength (120°C/2Bar/1Sec)		JPFTM	gms/25mm	450	475
SURFACE					
Treatment level		ASTM D2578	Dyne/cm	39	39
BARRIER					
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m ² /day	6	5
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m ² /day	1800	1700
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TECHNICAL DATA					
PROPERTIES		TEST METHOD	UNIT	15 to 50 H1	
PHYSICAL					
Thickness		ASTM D374	Micron	30	35
Yield		JPFTM	m ² /kg	36.63	31.45
Grammage		JPFTM	gm/m ²	37.3	31.8
OPTICAL					
Haze (Max)		ASTM D1003	%	2.0	2.1
Gloss at 45°		ASTM D2457	-	88	88
MECHANICAL					
Tensile Strength	(MD) Min	ASTM D882	kg/cm ²	1250	1250
	(TD) Min	ASTM D882	kg/cm ²	2700	2700
Elongation	(MD)	ASTM D882	%	210	210
	(TD)	ASTM D882	%	70	70
COF Max (Untreated or lower tr/Untreated or lower tr)		ASTM D1894	kinetic	0.34	0.34
THERMAL					
Shrinkage (120°C/5min)	(MD)	JPFTM	%	3.5	3.5
	(TD)	JPFTM	%	1.5	1.5
Seal Initiation temperature		JPFTM	°C	106	107
Sealing strength (120°C/2Bar/1Sec)		JPFTM	gms/25mm	500	525
SURFACE					
Treatment level		ASTM D2578	Dyne/cm	39	39
BARRIER					
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m ² /day	4	3
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m ² /day	1600	1500
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TECHNICAL DATA				
PROPERTIES		TEST METHOD	UNIT	15 to 50 H1
PHYSICAL				
Thickness		ASTM D374	Micron	40 45
Yield		JPFTM	m ² /kg	27.40 24.39
Grammage		JPFTM	gm/m ²	36.4 41.0
OPTICAL				
Haze (Max)		ASTM D1003	%	2.2 2.2
Gloss at 45°		ASTM D2457	-	88 88
MECHANICAL				
Tensile Strength	(MD) Min	ASTM D882	kg/cm ²	1250 1250
	(TD) Min	ASTM D882	kg/cm ²	2700 2700
Elongation	(MD)	ASTM D882	%	210 210
	(TD)	ASTM D882	%	70 70
COF Max (Untreated or lower tr/Untreated or lower tr)		ASTM D1894	kinetic	0.34 0.34
THERMAL				
Shrinkage (120°C/5min)	(MD)	JPFTM	%	3.5 3.5
	(TD)	JPFTM	%	1.5 1.5
Seal Initiation temperature		JPFTM	°C	107 108
Sealing strength (120°C/2Bar/1Sec)		JPFTM	gms/25mm	550 575
SURFACE				
Treatment level		ASTM D2578	Dyne/cm	39 39
BARRIER				
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m ² /day	2.5 2.5
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m ² /day	1450 1400
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 accepts any responsibility for the fitness of the product for any particular use.				

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

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