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## TECHNICAL DATA SHEET OPP FILMS

H1-PLS

### STRUCTURAL CONFIGURATION



-- CORONA TREATED HEAT SEALABLE SKIN  
-- MODIFIED PEARL WHITE INNER SKIN  
-- MODIFIED PEARL WHITE CORE  
-- MODIFIED PEARL WHITE INNER SKIN  
-- UNTREATED LOW HEAT SEALABLE SKIN

## APPLICATIONS:

Pearl White Low Heat Sealable One Side Corona Treated Film for Ice Cream Packaging. Also Useful Other single / two Ply Printing Lamination Application

## DESCRIPTION:

Pearl White, Low Heat Sealable, One Side Corona Treated OPP Film with Very Good Barrier, Slip and Antistatic Properties for use in Single / Two Ply Printing Lamination Application, Specifically for Ice cream Packaging Application. The corona treated side is specifically designed for excellent adhesion of inks and lamination adhesives. Untreated side exhibits ultra low seal initiation temperature, excellent hot tack and seal strength

## SALIENT FEATURES:

- Excellent Opacity
- Low Seal Initiation Temperature
- Excellent Hot Tack and Heat Seal Strength
- Brilliant Pearlicent White Appearance
- Very Good Barrier Properties
- High Surface Gloss
- Excellent Surface Treatment Retention
- Excellent Anchorage of Inks and Lamination Adhesive on Treated Side
- Excellent Machinability
- Suitable for Various Printing / Lamination Machines
- Available in Inside / Outside Corona Treated, as per the requirement of the customer

TECHNICAL DATA					
PROPERTIES		TEST METHOD	UNIT	20 TO 40 H1-PLS	
<b>PHYSICAL</b>					
Thickness		ASTM D374	Micron	20	25
Yield		JPFTM	m <sup>2</sup> /kg	71.43	57.1
Grammage		JPFTM	gm/m <sup>2</sup>	14	17.5
<b>OPTICAL</b>					
Opacity		CIE Standard	%	74	75
Gloss at 45°		ASTM D2457	-	60	60
<b>MECHANICAL</b>					
Tensile Strength	(MD) Min	ASTM D882	kg/cm <sup>2</sup>	600	600
	(TD) Min	ASTM D882	kg/cm <sup>2</sup>	1400	1400
Elongation	(MD)	ASTM D882	%	140	140
	(TD)	ASTM D882	%	40	40
COF Max (Untreated or lower tr/Untreated or lower tr)		ASTM D1894	kinetic	0.38	0.38
<b>THERMAL</b>					
Shrinkage (120°C/5min)	(MD)	JPFTM	%	5	3.5
	(TD)	JPFTM	%	2.5	1.5
Seal Initiation temperature		JPFTM	°C	105	105
Sealing strength (120°C/2Bar/1Sec)		JPFTM	gms/25mm	400	400
<b>SURFACE</b>					
Treatment level		ASTM D2578	Dyne/cm	38	38
<b>BARRIER</b>					
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m <sup>2</sup> /day	8	6
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m <sup>2</sup> /day	2250	1750
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	20 TO 40 H1-PLS	
<b>PHYSICAL</b>					
Thickness		ASTM D374	Micron	30	35
Yield		JPFTM	m <sup>2</sup> /kg	35.1	40.8
Grammage		JPFTM	gm/m <sup>2</sup>	21	24.5
<b>OPTICAL</b>					
Opacity		CIE Standard	%	80	85
Gloss at 45°		ASTM D2457	-	60	60
<b>MECHANICAL</b>					
Tensile Strength	(MD) Min	ASTM D882	kg/cm <sup>2</sup>	600	600
	(TD) Min	ASTM D882	kg/cm <sup>2</sup>	1400	1400
Elongation	(MD)	ASTM D882	%	140	140
	(TD)	ASTM D882	%	40	40
COF Max (Untreated or lower tr/Untreated or lower tr)		ASTM D1894	kinetic	0.38	0.38
<b>THERMAL</b>					
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	500
<b>SURFACE</b>					
Treatment level		ASTM D2578	Dyne/cm	38	38
<b>BARRIER</b>					
Water Vapour Transmission Rate (38°C & 90% RH)		ASTM E398	g/m <sup>2</sup> /day	5	4
Oxygen Gas Transmission Rate (23°C & 0% RH)		ASTM D3985	cc/m <sup>2</sup> /day	1650	1550
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**JPFTM:** JINDAL POLY FILMS TEST METHOD, **MD:** MACHINE DIRECTION, **TD:** TRANSVERSE DIRECTION

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