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**TECHNICAL DATA SHEET
OPP FILMS**

TRANSPARENT HIGH HEAT SEAL STRENGTH HIGH HOTTACK ONE SIDE CORONA TREATED ANTIFOG FILM

JS20/25/30/35/40/45/50H1-AFT

STRUCTURAL CONFIGURATION



- CORONA TREATED HEAT SEALABLE SKIN
- MODIFIED TRANSPARENT INNER SKIN
- MODIFIED TRANSPARENT CORE
- MODIFIED TRANSPARENT INNER SKIN
- ANTIFOG HIGH HEAT SEAL STRENGTH HIGH HOTTACK SKIN

APPLICATIONS :

TRANSPARENT, HIGH HEAT SEAL STRENGTH HIGH HOTTACK ONE SIDE CORONA TREATED ANTIFOG FILM FOR VEGETABLE / FRUIT AND OTHER PACKAGING PURPOSE WHERE PACKAGED FOOD TO BE KEPT UNDER REFRIGERATION OR ROOM / ELEVATED TEMPERATURE. ANTIFOG PROPERTY OF THE FILM PREVENT FOGGING INSIDE THE PACKAGE AND EXCELLENT SEE THROUGH OF THE FILM. THIS FILM IS APPLICABLE FOR BOTH COLD AND HOT FOG APPLICATIONS AND CAN BE USED AS SINGLE / TWO PLY PACKAGING STRUCTURE.

DESCRIPTION :

Antifog Transparent, High Heat Seal Strength High Hottack, One Side Corona Treated OPP Film with Excellent Barrier, Clarity, Slip and Antistatic Properties for Single / Two Ply Printing Lamination Application. This film exhibits excellent Antifog Effect on refrigeration or at room / elevated temperature.

The corona treated side is specifically designed for excellent adhesion of inks and lamination adhesive during conversion. Antifog side of the film must have to be in contact with the food.

SALIENT FEATURES :

- Excellent Antifog Effect – Both for Cold / Hot Fog Application
- Very High Seal Strength and Hottack Properties
- 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 SHEET

PROPERTIES	TEST METHOD	UNIT	JS20H1-AFT	JS25H1-AFT	JS30H1-AFT	JS35H1-AFT	JS40H1-AFT	JS45H1-AFT	JS50H1-AFT
PHYSICAL									
Thickness	ASTM D 374	Micron	20	25	30	35	40	45	50
Grammage	JPFTM	gm/m ²	18.2	22.7	27.3	31.8	36.4	40.9	45.5
Yield	JPFTM	m ² /kg	55.0	44.0	36.6	31.4	27.4	24.4	21.9
Surface									
Treatment Level (Printable side)	ASTM D2578	dyne/cm	38	38	38	38	38	38	38
Optical									
Haze	ASTM D1003	%	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Gloss at 45° Angle	ASTM D2457	-	87	87	87	87	87	87	87
MECHANICAL									
Coefficient of Friction – Max. (Film / Film) – any side	ASTM D 1894	Kinetic	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Tensile Strength	ASTM D 882	MD	1150	1150	1150	1150	1150	1150	1150
		TD	2700	2700	2700	2700	2700	2700	2700
Modulus	ASTM D 882	MD	17000	17000	17000	17000	17000	17000	17000
		TD	26000	26000	26000	26000	26000	26000	26000
Elongation	ASTM D 882	MD	220	220	220	220	220	220	220
		TD	70	70	70	70	70	70	70
THERMAL									
Shrinkage at 120 ^o 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 – Antifog side	JPFTM	°C	119	119	119	119	120	120	120
Sealing Strength – Antifog side at 125 ^o C / 2 Bar / 1 Sec	JPFTM	gms/25mm	950	1000	1050	1050	1050	1100	1100
ANTIFOG EFFECT									
Cold Fog at 4°C / 7 days	JPFTM	Rating A to E; A – Poor E – Excellent	E	E	E	E	E	E	E
Hot Fog at 60°C / 3 hours	JPFTM		E	E	E	E	E	E	E
BARRIER									
Water Vapour Transmission Rate	ASTM E 398	gm/ m ² /24h	6.0	5.0	4.0	3.0	2.5	2.3	2.0
Oxygen Gas Transmission Rate	ASTM D 3985	cc/m ² /24h	1800	1700	1600	1500	1400	1350	1300

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