

WS

BOPP FILMS

WHITE OPAQUE HEAT SEALABLE CORONA TREATED ONE SIDE FOR CONVERSION

**DESCRIPTION**

OPP WS is solid white both side sealable one side corona treated **BOPP** film, having modified higher density. This opaque and stiff film is ideal for VFFS & HFFS machines.

PRODUCT FEATURES

- Solid white appearance
- Good stiffness and mechanical properties
- Excellent seal integrity
- Very high heat seal strength and hot tack strength
- Good moisture and light barrier
- Outstanding opacity and whiteness
- Good moisture barrier
- Good opacity and whiteness

APPLICATIONS

Can be used as a part of laminate structure

- Confectionery (chocolate/gum/sugar)
- Bakery (biscuits/cookie/crackers)
- Frozen food
- Dry foods and beverage powders
- Health and beauty care
- Household and detergents

	PROPERTIES	POSITION	WS15TI	WS18TI	WS20TI	WS25TI	WS30TI	WS35TI	UNIT	METHOD
GENERAL	Nominal Thickness	-	15	18	20	25	30	35	μ	Internal Method
	Density	-	0.95	0.95	0.95	0.95	0.95	0.95	g/cc	Internal Method
	Grammage	-	14.25	17.1	19	23.75	28.5	33.25	g/m ²	Internal Method
	Yield	-	70.2	58.5	52.6	42.1	35.1	30.1	m ² /kg	Internal Method
SURFACE OPTICAL	Transmittance	-	48	44	44	42	40	40	%	ASTM D 1003
	Gloss	-	60	60	60	60	50	50	GU	ASTM D 2457
	Dynamic COF	Film/Film	0.40	0.40	0.40	0.40	0.30	0.30	-	ASTM D 1894
	Wetting Tension	-			38				dyne/cm	ASTM D 2578
MECHANICAL	Tensile Strength (at break)	- MD				1100			kg/cm ²	ASTM D 882
		- TD				2500				
	Elongation (at break)	- MD				180			%	ASTM D 882
		- TD				60				
	Elastic Modulus	- MD				17000			kg/cm ²	ASTM D 882
		- TD				27000				
THERMAL	Linear Shrinkage (max)	- MD				4			%	ASTM D 1204
		- TD				2				
	Heat Seal Range	-				112-145			°C	Internal Method
	Seal Strength	-	300	300	350	350	350	350	g/25mm	Internal Method (130°C/1sec/30psi)
BARRIER	WVTR 38° C 90% rh	-	11	10.5	8	6.5	4.5	4	g/m ² /day	ASTM F 1249
	OXTR 23° C	-	3600	3400	3200	2900	2500	2300	cc/m ² /day	ASTM D 3985

The figures and above properties refer to typical values which are indicative only. Customers should verify the suitability of the film for its specific end use. Therefore this document will not represent a product specification.

GUIDELINES FOR STORAGE

Temperature should preferably be less than 30°C & humidity 55±5% in storage areas and material should be consumed within three months of receipt. OPP films should be allowed to reach operating room temperature 24 hours before use.

FOOD CONTACT

OPP films complies with the requirements of FDA, EC & REACH regulations. Specific documentation is available on request.

SAFETY

Compliance with industrial health and safety standards. OPP films do not present any significant danger to health and safety in the workplace, provided they are used for the intended purpose in accordance with conventional practices and that health & safety regulations are observed. Relevant guidelines can be found in our MSDS (available upon request).

CAUTIONS

- Film characteristics are maintained for six months from the date of invoicing
- Please make sure printing surface is well dried before lamination