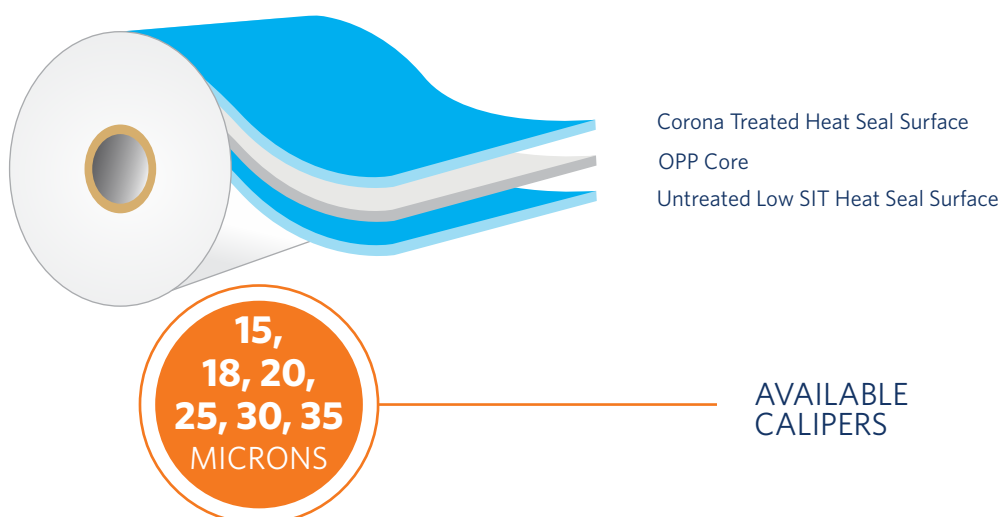


SPL

BOPP FILMS

TRANSPARENT HEAT SEALABLE WITH LOW INITIATION TEMPERATURE AND CORONA TREATED ONE SIDE FOR CONVERSION

**DESCRIPTION**

OPP TS-SPL is transparent co-extruded both side heatsealable **BOPP** film with Low Initiation Temperature on one side and corona treated on other side. Untreated heat-seal surface have good seal strength on low Initiation temperature and broad sealing range which gives optimum performance on wide range of packaging machines.

PRODUCT FEATURES

- Good sealing properties
- Good performance on HFFS & VFFS machines
- Good printability and suitable for lamination with other substrates
- Good optical properties
- Good stiffness and mechanical properties

APPLICATIONS

Can be used as a single web or in laminate structures.

- Confectionery (chocolate/gum/sugar)
- Bakery (biscuits/cookie/crackers)
- Health and beauty care
- Household and detergents
- Chips/snacks/pasta

	PROPERTIES	POSITION	TS15TISPL	TS18TISPL	TS20TISPL	TS25TISPL	TS30TISPL	TS35TISPL	UNIT	METHOD
GENERAL	Nominal Thickness	-	15	18	20	25	30	35	μ	Internal Method
	Density	-	0.91	0.91	0.91	0.91	0.91	0.91	g/cc	Internal Method
	Grammage	-	13.65	16.38	18.2	22.75	27.3	31.85	g/m ²	Internal Method
	Yield	-	73.3	61.1	54.9	44.0	36.6	31.4	m ² /kg	Internal Method
OPTICAL	Haze	-	2.5	2.5	2.5	2.5	3	3.2	-	ASTM D 1003
	Gloss	-				95			-	ASTM D 2457
SURFACE	COF (Dynamic)	Film/Film				0.30			-	ASTM D 1894
	Wetting Tension	-				38			dy/cm	ASTM D 2578
MECHANICAL	Tensile Strength (at break)	- MD				1300			kg/cm ²	ASTM D 882
		- TD				2700				
	Elongation (at break)	- MD				200			%	ASTM D 882
		- TD				60				
	Elastic Modulus	- MD				18000			kg/cm ²	ASTM D 882
		- TD				32000				
THERMAL	Linear Shrinkage (max)	- MD				4			%	ASTM D 1204
		- TD				2				
	Heat Seal Range	-				105-145			°C	Internal Method
	Seal Strength	-	350	350	350	400	400	400	g/25mm	Internal Method (130°C/1sec/30psi)
BARRIER	WVTR 38°C,90%rh	-	8.5	8.5	8.0	6.0	5.0	4.0	gm/m ² /day	ASTM D 3985
	OTR 23°C	-	2600	2400	2300	2200	2100	2000	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