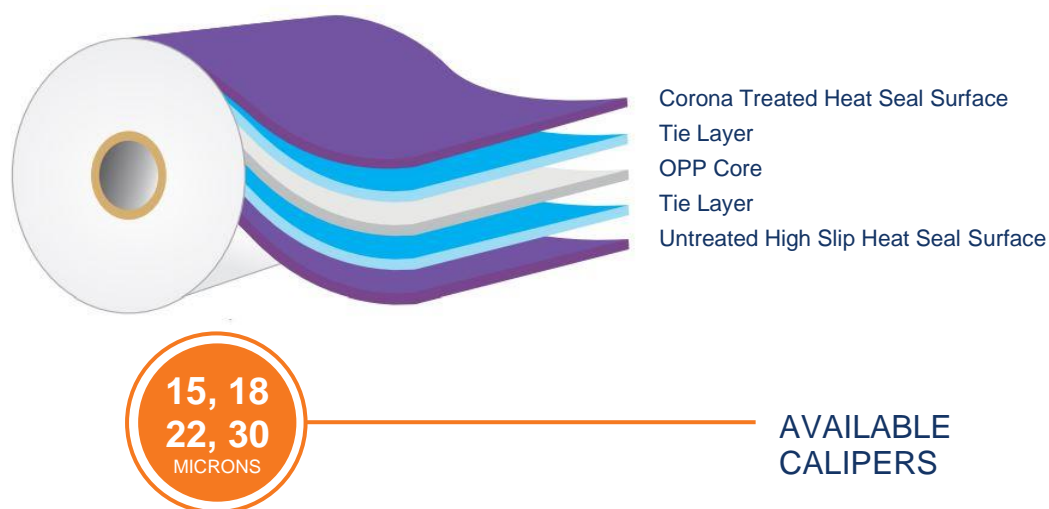


PROVISIONAL

TDSTIHS1A

BOPP FILMS

TRANSPARENT LOW HEAT SEALABLE CORONA TREATED ONE SIDE STABLE
SLIP GRADE FOR CONVERSION



DESCRIPTION

TDSTIHS1A is transparent co-extruded low initiation temperature & COF **BOPP** film. It is one side corona treated & both side heat sealable. Untreated heat-seal surface is specially designed to give low stable COF & SIT at low temperature, good seal strength and sealing range which gives robust performance on all types of HFFS & VFFS machines

PRODUCT FEATURES

- Low Seal Initiation Temperature (95°C)
- Improved adhesion at corona treated surface
- Exceptional slip properties
- Stable co-efficient of friction
- Total forgiving on HFFS & VFFS machines
- Good printability and suitable for lamination with other substrates
- Good Stiffness, Optical & Mechanical properties

APPLICATIONS

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

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

NOMENCLATURE

TDSTIHS1A – Corona treated surface is Inside & Untreated Heat seal surface is Outside
TDSTOHS1A – Corona treated surface is Outside & Untreated Heat seal surface is Inside

TOPPAN SPECIALITY FILMS

PROVISIONAL

	PROPERTIES	POSITION	TDS15TIHS1A	TDS18TIHS1A	TDS22TIHS1A	TDS30TIHS1A	UNITS	TEST METHOD
GENERAL	Thickness	-	15	18	22	30	μ	Internal Method
	Density	-	0.91	0.91	0.91	0.91	g/cc	Internal Method
	GSM	-	13.7	16.38	20.0	27.3	g/m ²	Internal Method
	Yield	-	73.3	61.1	50.0	36.6	m ² /kg	Internal Method
OPTICAL	Haze	-	2.0	2.0	3.0	3.5	%	ASTM D 1003
	Gloss	-			90		GU	ASTM D 2457
SURFACE	Dynamic COF	Film/Film			0.30		-	Internal Method
		Film/Metal			0.28		-	Internal Method
	Wetting Tension	-			38*		dy/cm	ASTM D 2578
MECHANICAL	Tensile Strength (at break)	-MD -TD			1200 2700		kg/cm ²	ASTM D 882
	Elongation (at break)	-MD -TD			180 60		%	ASTM D 882
	Elastic Modulus	-MD -TD			16000 28000		kg/cm ²	ASTM D 882
THERMAL	Shrinkage	-MD -TD			5 3		%	ASTM D 1204
	Heat Seal range	-			95 - 145		-	Internal Method
	Heat Seal Stren.	-	300	300	450	450	-	Internal Method

* 38 dyne/cm guaranteed for 4 months from the invoice date in controlled ambient condition as per below storage guidelines.

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 except for wetting tension