

PROVISIONAL

TSTIHS1

BOPP FILMS

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



Corona Treated Heat Seal Surface

OPP Core

Untreated High Slip Heat Seal Surface



AVAILABLE
CALIPERS

DESCRIPTION

TSTIHS1 is transparent co-extruded low 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, good seal strength and sealing range which gives robust performance on all types of HFFS & VFFS machines

PRODUCT FEATURES

- Exceptional slip properties
- Stable co-efficient of friction
- Excellent Hot slip
- Total forgiving on HFFS & VFFS machines
- Good printability and suitable for lamination with other substrates
- Good Optical properties
- Good Stiffness & 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

TSTIHS1 – Corona treated surface is Inside & Untreated Heat seal surface is Outside
TSTOHS1 – Corona treated surface is Outside & Untreated Heat seal surface is Inside

TOPPAN SPECIALITY FILMS

PROVISIONAL

	PROPERTIES	POSITION	TS15TIHS1	TS18TIHS1	TS35TIHS1	TS40TIHS1	UNITS	TEST METHOD
GENERAL	Thickness	-	15	18	35	40	μ	Internal Method
	Density	-	0.91	0.91	0.91	0.91	g/cc	Internal Method
	GSM	-	13.7	16.38	31.9	36.4	g/m ²	Internal Method
	Yield	-	73.3	61.1	31.4	27.5	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			1300		kg/cm ²	ASTM D 882
		-TD			2700			
	Elongation (at break)	-MD			180		%	ASTM D 882
		-TD			60			
	Elastic Modulus	-MD			18000		kg/cm ²	ASTM D 882
		-TD			32000			
THERMAL	Linear Shrinkage	-MD			5		%	ASTM D 1204
		-TD			3			
	Heat Seal range	-			105 - 145		-	Internal Method
	Heat Seal Strength	-	300	300	450	450	-	Internal Method
BARRIER	WVTR (38°C, 90% rh)	-	9.0	8.5	6.5	6.0	g/m ² /d	ASTM D 1003 ASTM D 2457

* 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