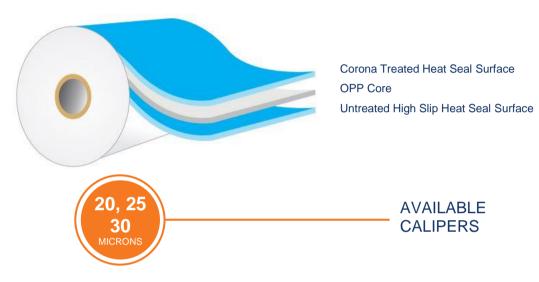
# TSTIHS1

**BOPP FILMS** 

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



## **DESCRIPTION**

TS20TIHS1 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

	PROPERTIES	POSITION	TS20TIHS1	TS25TIHS1	TS30TIHS1	UNITS	TEST METHOD
OPTICAL GENERAL	Nominal Thickness Density GSM Yield Haze Gloss	- - - -	20 0.91 18.2 54.9	25 0.91 22.8 43.9 2.5 90	30 0.91 27.3 36.6	μ g/cc g/m² m²/kg % GU	Internal Method Internal Method Internal Method Internal Method ASTM D 1003 ASTM D 2457
SURFACE OF	Wetting Tension COF (Maximum)	- Film/Film Film/Metal		40 0.30 0.28		dy/cm - -	ASTM D 2578 ASTM D 1894 ASTM D 1894
MECHANICAL	Tensile Strength (at break) Elongation (at break) Elastic Modulus	-MD -TD -MD -TD -MD -TD		1300 2700 180 60 18000 32000		kg/cm <sup>2</sup> % kg/cm <sup>2</sup>	ASTM D 882 ASTM D 882 ASTM D 882
THERMAL	Linear Shrinkage (max) Heat Seal Range Heat Seal Strength	-MD -TD -	350	5 3 105-145 400	450	% °C g/25mm	Internal Method Internal Method Internal Method
BARRIER	WVTR (38°C, 90% rh)	-		7.5		g/m²/day	ASTM F 1249

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 with three months of receipt. OPP films should be allowed to reach operating room temperature 24 hours before use. Film characteristics are maintained for six months from the date of manufacturing.

#### **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
- Coated reels must not be stacked.

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