TECHNICAL DATA SHEET

TOPPAN

PROVISIONAL

TTIHR

TRANSPARENT NON HEAT SEALABLE HEAT RESISTANT BOPP FILM BOTH SIDE CORONA TREATED FOR CONVERSION

Corona Treated HR Surface (Modified Layer)
Tie Layer
OPP Modified Core Layer
Tie Layer
Corona Treated Glossy Surface

15, 18 20, 25 MICRONS

AVAILABLE CALIPERS

DESCRIPTION

OPP TTIHR is non heat sealable plain high gloss both side treated **BOPP** film with ultra-high heat resistant characteristics. Its treated surface is modified which can endure heat and shrinking during pack sealing; its core layer is also modified for better rigidity compared to conventional plain BOPP Films. Moreover it's inside corona treated surface is specifically designed for printing and lamination during conversion.

PRODUCT FEATURES

- Endurance to heat and shrinking during sealing
- Easy Jaw release
- Good Wetting Tension for Printing & Lamination
- Suitable for Food contact application
- Water/ Oil/ Grease repellent
- Outstanding Clarity & Gloss

APPLICATIONS

Can be used as an outside web of laminate structures;

- Chips/tea/coffee/Pasta/Noodles
- Confectionary (chocolate/gum/sugar)
- Bakery (Biscuits/cookie/crackers)
- Soaps and detergents
- Miscellaneous industrial and house hold applications

NOMENCLATURE

TTIHR - Print side is Inside, Heat resistance side is Outside
TTOHR - Print side is Outside, Heat resistance side is Inside

LAST UPDATE 11-11-2024 / ISSUE 1/REV 00

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	PROPERTIES	POSITION	T15TTIHR	T18TTIHR	T20TTIHR	T25TTIHR	UNITS	TEST METHOD
GENERAL	Thickness	-	15	18	20	25	µ	Internal Method
	Density	-	0.91	0.91	0.91	0.91	g/cc	Internal Method
	GSM	-	13.7	16.4	18.2	22.7	g/m^2	Internal Method
	Yield	-	73.3	61.0	54.9	44.0	m^2/kg	Internal Method
OPTICAL	Haze	-			2.5		%	ASTM D 1003
	Gloss	-			95		GU	ASTM D 2457
SURFACE	Dynamic COF	Film/Film			0.25		-	Internal Method
		Film/Metal			0.20		-	Internal Method
	Wetting Tension	Both side			38*		dy/cm	ASTM D 2578
MECHANICAL	Tensile Strength (at break)	-MD -TD			1300 2500		kg/cm^2	ASTM D 882
	Elongation (at break)	-MD -TD			180 60		%	ASTM D 882
	Elastic Modulus	-MD -TD			20000 36000		kg/cm^2	ASTM D 882
THERMAL	Linear Shrinkage (120°C, 5min)	-MD -TD			3.0 1.0		%	ASTM D 1204
BARRIER	WVTR (38°C, 90%rh)	-	9.0	8.0	7.0	6.0	$gm/m^2/d$	ASTM F 1249

* 36 dyne/cm guaranteed for 3 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