

PROVISIONAL

T18TIUL-AVNP

MAX SHIELD BOPP FILMS

TRANSPARENT NON SEALABLE CORONA TREATED ONE SIDE BOPP FILM
FOR CONVERSION WITH ANTI-MICROBIAL & VIRUCIDAL PROPERTIES



Corona Treated Surface

OPP Core

Untreated Surface with Anti-microbial & Virucidal properties

AVAILABLE
CALIPERS

DESCRIPTION

SHIELD OPP TIUL-AVNP is transparent high gloss non-heat sealable one side corona treated BOPP film with Anti-Microbial & Virucidal properties. This film is specially designed for printing and lamination process. Both Skin layers are formulated to provide excellent antiblocking, Corona treated layer is carefully formulated to provide good ink anchoring without any powder deposition/accumulation. This film is new generation of BOPP film specifically designed with the ability to safe product from bacteria, fungus & Viruses.

PRODUCT FEATURES

- Eliminates 99.9% of micro organisms(Bacteria, Fungus & Viruses) that comes into contact with the film
- No matter how many hands touch the product, the film will remain self-sanitised
- Outstanding clarity and gloss
- Can be laminated with other substrates
- Printable/gluable
- Robust Machinability
- Low static and good COF
- Excellent wetting tension
- Suitable for food contact applications

APPLICATIONS

Can be used as outside web of laminates for

- Bakery (Biscuits/cookie/crackers)
- Confectionery(chocolates/gum/sugar)
- Chips/tea/coffee/pasta
- Miscellaneous industrial and house hold applications
- Medical & Pharmaceuticals packaging

TOPPAN SPECIALITY FILMS

PROVISIONAL

	PROPERTIES	POSITION	T18TIUL-AVNP	UNIT	METHOD
GENERAL	Nominal Thickness	-	18	μ	Internal Method
	Density	-	0.91	g/cc	Internal Method
	Grammage	-	16.38	g/m ²	Internal Method
	Yield	-	61.1	m ² /kg	Internal Method
OPTICAL	Haze	-	2.0	%	ASTM D 1003
	Gloss	-	95	GU	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	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		
BARRIER	WVTR 38 °C 90% rh	-	8	g/m ² /day	ASTM F 1249
	OXTR 23 °C 0% rh	-	3000	cc/m ² /day	ASTM D 3985

* 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.

STANDARD FOR ANTIMICROBIAL PROPERTIES

- ISO 21702 for virucidal property measurement
- ISO 22196 for antimicrobial property measurement

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. SHIELD OPP Films should be allowed to reach operating room temperature 24 hours before use.

FOOD CONTACT

SHIELD 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. SHIELD 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