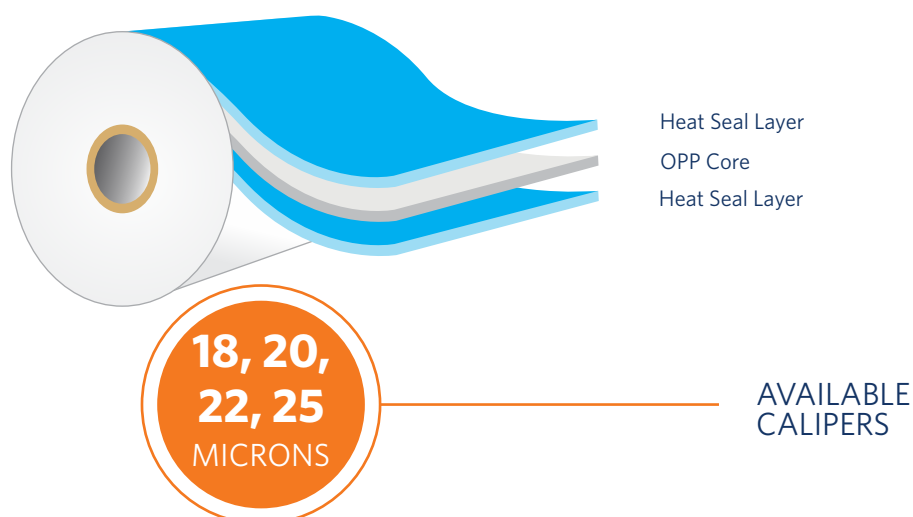


TL

BOPP FILMS

TRANSPARENT LOW HAZE SEALABLE FOR OVERWRAP



DESCRIPTION

OPP TL is transparent heat sealable on either side **BOPP** film. It is specially designed for unprinted overwrapping applications where Machinability is a key factor.

PRODUCT FEATURES

- Specially formulated for unprinted overwrap application
- Consistent and stable slip
- Excellent stiffness and mechanical properties
- Excellent anti-blocking characteristics for use in vending machines
- Good anti-static and hot slip
- Good aroma & moisture barrier
- Good optical properties

APPLICATIONS

Unprinted overwrap

- Tobacco (cigarettes/cigars)
- CD's & DVD's
- IV fluid bottles
- Stationary
- Household and industrial

	PROPERTIES	POSITION	TL18	TL20	TL22	TL25	UNIT	METHOD
GENERAL	Nominal Thickness	-	18	20	22	25	μ	Internal Method
	Density	-	0.91	0.91	0.91	0.91	g/cc	Internal Method
	Grammage	-	16.38	18.2	20.02	22.75	g/m ²	Internal Method
	Yield	-	61.1	54.9	50.0	44.0	m ² /kg	Internal Method
OPTICAL	Haze	-	1.8	2	2	2.2	%	ASTM D 1003
	Gloss	-	90	90	90	90	GU	ASTM D 2457
SURFACE	COF (Dynamic)	Film/Metal	0.25	0.25	0.25	0.25	-	ASTM D 1894
	Static Charge	-	0.6	0.6	0.6	0.6	Kv	Internal Method
MECHANICAL	Tensile Strength (at break)	- MD	1300	1300	1300	1300	kg/cm ²	ASTM D 882
		- TD	2500	2500	2500	2500		
	Elongation (at break)	- MD	170	170	170	170	%	ASTM D 882
		- TD	60	60	60	60		
	Elastic Modulus	- MD	20000	20000	20000	20000	kg/cm ²	ASTM D 882
THERMAL		- TD	32000	32000	32000	32000		
	Linear Shrinkage	- MD	4	4	4	4	%	ASTM D 1204
	Heat Seal Range	-	111-145	111-145	111-145	111-145	°C	Internal Method
	Heat Seal Strength	-	350	350	350	350	g/25mm	Internal Method (130°C/1sec/30psi)

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