

# Over Wrap Film Transparent - Low COF & High Speed

## HST-1(HSL)

### Structure



### Description

It is a co-extruded, both side heat sealable and one side treated Bi-axially Oriented Polypropylene film

### Features

- Excellent machinability
- Good ink adhesion
- Good heat seal strength
- Seals at low temperature, hence broader heat seal temperature range
- Low COF through-out printing & laminating processes

### Applications

- General purpose printing, pouching and packaging of snacks, bakery products
- As a component in multi-layer laminate for VFFS & HFFS application
- High speed over wrap

### Typical values

Properties	Ref.	Units	ASTM# / Test Method	HST-1(HSL)		
<b>Physical Data</b>						
Average Thickness		Micron	D-374-C	18	20	25
		Gauge		72	80	100
		Mils		0.7	0.8	1.0
Thickness Variation		%( $\pm$ )		3		
Density		g/cc		0.905		
Average substance		g/m <sup>2</sup>		16.3	18.1	22.6
Surface Tension(min)		dynes/cm	D-2578	38		
Kinetic COF	UT-UT		D-1894	0.20-0.30		
Yield		m <sup>2</sup> /Kg	D-4321	61.4	55.2	44.2
		in <sup>2</sup> /lb		43168	38809	31075
<b>Optical Data</b>						
Gloss (45°)		Gardner	D-2457	>85		
Haze		%	D-1003	2.0-3.0		
<b>Mechanical Data</b>						
Tensile Strength	MD	kg/cm <sup>2</sup>	D-882	1200 - 1500		
	TD			2500 - 2800		
Elongation	MD	%	D-882	140-200		
	TD			30-70		
<b>Thermal Data</b>						
Shrinkage (120°C/248 °F,5 min)	MD	%	D-1204	3.0-5.0		
	TD			0.5-2.0		
Heat Seal Range	UT	°C	CTM	105-145		
Heat Seal Strength (min.)	UT	g/25 mm	CTM	425	450	500
Hot Tack		g/25 mm	ASTM F-1921	330	330	350
<b>Barrier Data</b>						
MVTR (38°C, 90% RH)		g/m <sup>2</sup> /day	F-1249	<7.0	<6.0	<4.5
MVTR (100 °F,90%RH)		g/100 in <sup>2</sup> /day	F-1249	<0.45	<0.38	<0.29

CTM : Cosmo Test Method

MD : Machine Direction

TD : Transverse Direction

**Disclaimer :** The information provided above is based on COSMO FILMS LTD's conclusive tests, which are indicative only and provided as guidelines. They do not constitute a guarantee of any specific product attributes or the suitability of products for specific applications

**Storage condition :** Storage temperature to be maintained 25 Deg.C (+/-5 Deg C) & relative humidity 55% (+/-5%) to avoid accelerated reduction of surface treatment level.