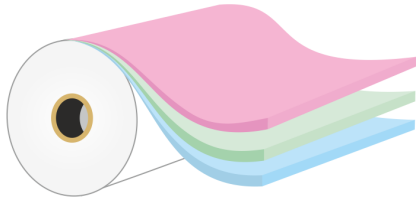


# Overwrap Film High Shrink, Tight Wrap

## HST-0(HSR) TW

### Structure



- Hot slip modified, HS OPP layer
- Additive modified OPP layer
- Hot slip modified, HS layer

### Description

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

### Features

- Excellent transparency and clarity
- Excellent machinability on high-speed machines
- High shrinkage for tight packs
- High moisture barrier
- Good stiffness

### Applications

- Cigarette over-wrap
- General over-wrap

### Typical values

Properties	Ref.	Units	ASTM# / Test Method	HST-0(HSR) TW		
<b>Physical Data</b>						
Average Thickness		Micron	D-374-C	20	22	25
		Gauge		80	88	100
		Mils		0.8	0.9	1.0
Thickness Variation		%(±)		3		
Density		g/cc		0.905		
Average substance		g/m <sup>2</sup>		18.1	19.9	22.62
Kinetic COF	F-F		D-1894	0.2 - 0.3		
Yield		m <sup>2</sup> /Kg	D-4321	55.24	50.2	44.20
		in <sup>2</sup> /lb		38837	35294	31075
<b>Optical Data</b>						
Gloss (45°)		Gardner	D-2457	> 86		
Haze		%	D-1003	1.6 - 2.5		
<b>Mechanical Data</b>						
Tensile Strength	MD	kg/cm <sup>2</sup>	D-882	1300-1600		
	TD			2400-2800		
Elongation	MD	%	D-882	100-170		
	TD			30-70		
<b>Thermal Data</b>						
Shrinkage (120°C/248 °F, 5 min)	MD	%	D-1204	7.0 - 9.0		
	TD			8.0-10.0		
Seal Initiation Temperature		°C / °F	CTM	105 / 221		
Heat Seal Strength (min.)		g/25 mm	CTM	425		
<b>Barrier Data</b>						
MVTR (38°C, 90% RH)		g/m <sup>2</sup> /day	F-1249	5.0		
OTR (23°C, 0% RH)		cc/m <sup>2</sup> /day	D-3985	1600		

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.

### Cosmo Films Limited

1st Floor, Uppal's Plaza, M-6 Jasola District Centre, New Delhi - 110025, India, T: + 91-11-49 49 49 49,

E-mail: sales.enquiry@cosmofilms.com | www.cosmofilms.com