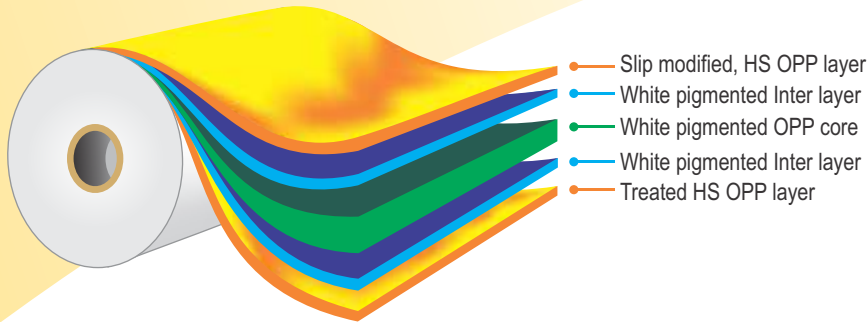


# Printing pouching (White Opaque)

## HST-1 (W)

### Structure



- Slip modified, HS OPP layer
- White pigmented Inter layer
- White pigmented OPP core
- White pigmented Inter layer
- Treated HS OPP layer

### Description

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

### Features

- Excellent machinability with good seal strength
- Excellent aesthetics
- High whiteness index
- Good barrier to normal and UV Light

### Applications

- General purpose printing and pouching of snacks and bakery products
- As a component in multi-layer laminate for VFFS & HFFS application

### Typical Values

Properties	Ref.	Units	Astm # / Test Method	HST-1 (W)							
<b>Physical Data</b>											
Average Thickness		micron	D-374-C	15	18	20	25	30	35	40	45
		gauge		59.06	70.87	78.74	98.43	118.11	137.80	157.48	177.16
		mils		0.59	0.71	0.79	0.98	1.18	1.38	1.57	1.77
Thickness Variation		% (±)		3							
Density		g/cc		0.95							
Average Substance		g/m <sup>2</sup>		14.25	17.1	19.0	23.75	28.50	33.25	38	42.75
Wettability (min.)		dynes/cm	D-2578	38							
Kinetic COF	UT/UT		D-1894	0.30 – 0.40							
Yield		m <sup>2</sup> /kg	D-4321	70.17	58.48	52.63	42.11	35.09	30.08	26.31	23.39
<b>Optical Data</b>											
Gloss (45 °)		gardner	D-2457	45 – 50							
Opacity		%	Hunter Lab (D25-2CR)	60-65	65-70	65-70	70-75	70-75	75-80	80-85	85-90
Whiteness Index		%	E-313	>80							
<b>Mechanical Data</b>											
Tensile Strength	MD	kg/ cm <sup>2</sup>	D-882	1000 – 1300							
	TD			2200 – 2500							
Elongation	MD	%	D-882	130 – 170							
	TD			25 – 55							
<b>Thermal Data</b>											
Shrinkage (120 °C, 5 min.)	MD	%	D-1204	2 – 4							
	TD			1 – 3							
Seal Initiation Temp.		°C	CTM	105							
Heat Seal Strength (min.)		g/25 mm	CTM	350	375	375	400	450	475	500	525
<b>Barrier Data</b>											
MVTR (38 °C, 90%RH)		g/m <sup>2</sup> /day	F-1249	7	6.5	6.5	6	5	4	3	3

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.

### Cosmo Films Limited