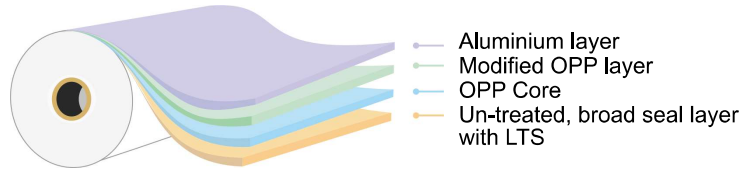


# Metallised, High Barrier Film, Enhanced Seal

## HST-1(ES-EL) MO T085

### Structure



### Description

It is a Co-extruded one side metallised other side heat sealable Bi-axially Oriented Polypropylene film

### Features

- Excellent moisture and light barrier
- Very good oxygen barrier
- Broad heat sealing window with high heat seal strength
- Non craze metal surface
- Suitable for both extrusion/ adhesive lamination

### Applications

- Inner sealing layer for confectionery & snacks
- Pet food packaging

### Typical values

Properties	Ref.	Units	ASTM# / Test Method	HST-1(ES-EL) MO T085
<b>Physical Data</b>				
Average Thickness		Micron	D-374-C	23
		Gauge		89
		Mils		0.9
Thickness Variation		%(±)		3
Density		g/cc		0.905
Average substance		g/m <sup>2</sup>		20.81
Kinetic COF	UT-UT		D-1894	0.4-0.6
Yield		m <sup>2</sup> /Kg	D-4321	48.04
		in <sup>2</sup> /lb		33777
<b>Optical Data</b>				
Optical Density			CTM	2.3-2.5
<b>Mechanical Data</b>				
Tensile Strength	MD	kg/cm <sup>2</sup>	D-882	1000-1400
	TD			2000-2400
Elongation	MD	%	D-882	150-220
	TD			30-80
<b>Thermal Data</b>				
Shrinkage (120°C/248 °F,5 min)	MD	%	D-1204	2.0-4.0
	TD			1.0-3.0
Seal Initiation Temperature		°C / °F	CTM	85/185
Heat Seal Strength (min.)		g/25 mm	CTM	800-1200
<b>Barrier Data</b>				
MVTR (38°C, 90% RH)		g/m <sup>2</sup> /day	F-1249	<0.16
MVTR (100 °F,90%RH)		g/100 in <sup>2</sup> /day	F-1249	0.01
OTR (23°C, 0% RH)		cc/m <sup>2</sup> /day	D-3985	40
OTR (73°F, 0% RH)		cc/100 in <sup>2</sup> /day	D-3985	2.581

CTM : Cosmo Test Method MD : Machine Direction TD : Transverse Direction LTS: Low temperature Sealing UT: Un-treated  
**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.

**Note :** Treatment values in metalized films tend to decay over a period of time during transportation & subjected to storage conditions, hence it is recommended to check the treatment prior to processing & if reduction is observed then go for online treatment, high adhesive GSM & a suitable primer may be applied. Seal Initiation Temp: Both Jaw @85 °C , 0.5 sec ,2 Bar Heat seal strength : In lamination 127°C,0.5 sec, 2 bar

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