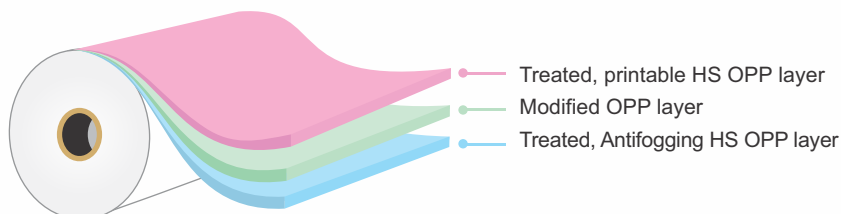


# Antifog, Oxo Biodegradable, Heat Sealable Film

## HST-2 (AF) OBD

### Provisional Data Sheet

#### Structure



#### Description

It is a co-extruded, both sides heat sealable and both sides treated, Oxo Biodegradable Bi-axially Oriented Polypropylene film.

#### Features

- OXO-biodegradable within 2 to 2.5 years
- Excellent machinability and optics
- Good ink adhesion
- Excellent cold and hot antifogging effect on one side and printability on other side
- High heat seal strength
- High hot tack strength
- Low seal initiation temperature

#### Applications

- Packaging of fresh cut vegetables, salad and meat
- Flower wrapping

Properties	Ref.	Units	ASTM #/Test Method	HST-2 (AF) OBD						
<b>Physical Data</b>										
Average Thickness		micron	D-374-C	20	25	30	35	40	50	52
		gauge		80	100	120	140	160	200	208
		mils		0.8	1.0	1.2	1.4	1.6	2.0	2.1
Thickness Variation		% (±)		3						
Density		g/cc		0.905						
Average Substance		g/m <sup>2</sup>		18.1	22.6	27.1	31.6	36.2	44.25	47.06
Surface Tension (min.)		dynes/cm	D-2578	38						
Kinetic COF	AF Side		D-1894	0.20 – 0.30						
Yield		m <sup>2</sup> /kg	D-4321	55.2	44.2	36.9	31.6	27.6	22	21.2
		in <sup>2</sup> /lb		38809	31075	25943	22217	19404	15467	14905
<b>Optical Data</b>										
Gloss (45 °)		Gardner	D-2457	> 86						
Haze		%	D-1003	2.0 - 3.5						
<b>Mechanical Data</b>										
Tensile Strength	MD	kg/ cm <sup>2</sup>	D-882	1200 - 1400						
	TD			2400 - 2800						
Elongation	MD	%	D-882	180 - 230						
	TD			50 - 70						
<b>Thermal Data</b>										
Shrinkage (120 °C, 5 min.)	MD	%	D-1204	3.0 - 4.0						
	TD			0.5 - 2.0						
Heat Seal Temp(min.) (2.0 bar, 0.5s)		°C/°F	CTM	115 / 239						
SIT Variation (±)		°C/°F	CTM	3 / 37.4						
Heat Seal Strength (135°C/275°F, 2.0 bar, 0.5s)		g/25mm	CTM	>600	>650	>700	>800	>850	>850	>850
Hot tack		g/25mm	F1921	200	250	300	400	400	400	400
<b>Antifog Data</b>										
Cold Fog (4°C/39.2°F, 7 Days)		Rating A-E	CTM	E						
Hot Fog (60°C/140°F, 3 h)		A - Poor E - Excellent		E						
<b>Barrier Data</b>										
MVTR (38 °C, 90%RH)		g/ m <sup>2</sup> /day	F-1249	<5.8	<4.5	<4.0	<3.5	<3.0	<3.0	<3.0
MVTR (100 °F, 90%RH)		g/100in <sup>2</sup> /day	F-1249	<0.37	<0.29	<0.25	<0.22	<0.19	<0.19	<0.19

**Cosmo Films Limited**

1008,DLF Tower -A, Jasola District Centre, New Delhi - 110 025, India, T: + 91-11-49 49 49 49, E-mail: sales.enquiry@cosmofilms.com | www.cosmofilms.com

CTM : Cosmo Test Method MD : Machine Direction TD : Transverse Direction AF : Antifog

**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.