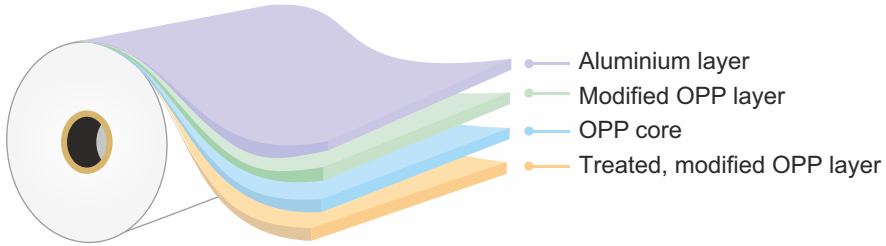
COSMO FILMS
Engineered to Enhance

Technical Data Sheet

High Barrier Film, Metallised

HST-2 IMB HS MO

Structure



Description

It is a clear metallised Bi-axially Oriented Polypropylene film with high oxygen & moisture barrier characteristics.

Features

- High oxygen, moisture and light barrier
- Wide heat sealing window with good heat seal
- High metal bond strength
- High speed machinabiliy
- Stable COF
- Suitable for both extrusion/adhesive lamination
- Suitable for Cold seal adhesive receptive on non metal side

Applications

- Biscuits, cookies and crackers
- Confectionery, snacks and chips

Typical Values

Properties	Ref.	Units	ASTM # / Test Method	HST-2 IMB HS MO	
Physical Data					
Average Thickness		micron	D-374-C	14	15
		gauge		56	60
		mils		0.5	0.6
Thickness Variation		% (±)		3	
Density		g/cc		0.905	
Average Substance		g/m^2		12.6	13.6
Kinetic COF	NM - NM		D-1894	0.30 - 0.40	
Yield		m^2/kg	D - 4321	78.9	73.7
		in^2/lb		55472	51816
Optical Data					
Optical Density			CTM	2.0 - 2.2	
Mechanical Data					
Tensile Strength	MD	kg/ cm^2	D-882	1200 -1500	
	TD			2400 -2800	
Elongation	MD	%	D-882	140 -190	
	TD			30 -80	
Thermal Data					
Shrinkage (120°C/248°F, 5min.)	MD	%	D-1204	2.0 - 4.0	
	TD			1.0 - 3.0	
Heat Seal Strength		g/25mm	CTM	450	
Barrier Data					
MVTR (38°C, 90%RH)		$g/m^2/day$	F-1249	< 0.35	
MVTR (100°F, 90%RH)		$g/100in^2/day$		< 0.02	
OTR (23 °C, 0%RH)		$cc/m^2/day$	D-3985	< 60	
OTR (73 °F, 0%RH)		$cc/100in^2/day$		< 3.87	

Updated as on July - 2024

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.

Cosmo Films
1st Floor, Uppal's Plaza, M-6 Jasola District Centre, New Delhi-110025, T: + 91-11-49 49 49 49,
E-mail: sales.enquiry@cosmofilms.com I www.cosmofilms.com