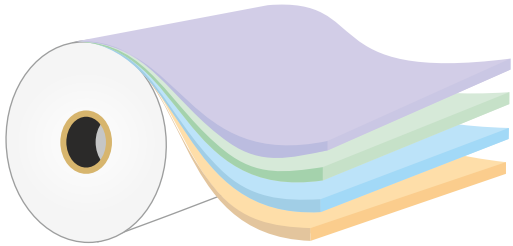
COSMO FILMS
Engineered to Enhance

Technical Data Sheet

Metallised, Barrier Film, Broad seal

HST-1 (HMB-EL) MO T090

Structure



Description

It is a co-extuded one side metallised other side heat sealable Bi-axially Oriented Polypropylene film

Features

- High oxygen, moisture and light barrier
- Broad heat sealing window with good heat seal.
- Excellent slip on sealable side
- Suitable for both extrusion/adhesive lamination

Applications

- Inner sealing layer for Confectionery, snacks and chips.

Typical Values

Properties	Ref.	Units	ASTM # / Test Method	HST-1 (HMB -EL) MO T090						
Physical Data										
Average Thickness		micron	D-374-C	14	18	20	23	30	40	50
		gauge		56	72	80	92	120	160	200
		mils		0.5	0.7	0.8	0.9	1.2	1.6	2.0
Thickness Variation		% (±)		3						
Density		g/cc		0.905						
Average Substance		g/m^2		12.67	16.3	18.1	20.8	27.2	36.2	16.3
Kinetic COF	UT - UT		D-1894	≤ 0.27						
Yield		m^2/kg	D - 4321	78.9	61.4	55.2	48.0	36.8	27.6	61.4
		in^2/lb		55472	43160	38844	33777	25896	19418	43160
Optical Data										
Optical Density			CTM	2.3 - 2.5						
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						
Seal Initiation Temp	UT	°C / °F	CTM	90 / 194						
Heat Seal Strength		g/25mm	CTM	> 450		> 500				
Barrier Data										
MVTR (38°C, 90%RH)		$g/m^2/day$	F-1249	< 0.15						
MVTR (100°F, 90%RH)		$g/100in^2/day$		< 0.009						
OTR (23 °C, 0%RH)		$cc/m^2/day$	D-3985	< 15						
OTR (73 °F, 0%RH)		$cc/100in^2/day$		< 0.96						

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.

Updated as on Feb - 2025

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