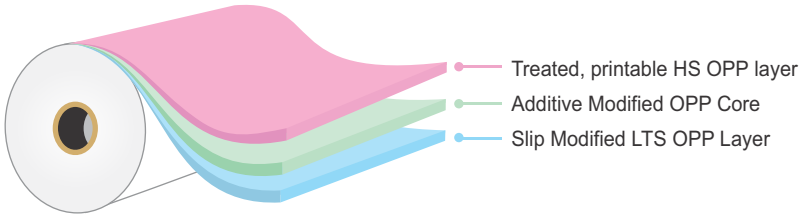
COSMO FILMS
Engineered to Enhance

Technical Data Sheet

Printing & Pouching Film
Transparent - Low COF & Low SIT, Heat Sealable

HST-1 (LCF) T095

Structure



Description

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

Features

- Excellent machinability
- Good ink adhesion
- Good heat seal strength
- Seals at very low temperature, hence broader heat seal temperature range
- Low COF through-out printing & laminating processes

Applications

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

Typical Values

Properties	Ref.	Units	ASTM #/Test Method	HST-1 (LCF) T095								
Physical Data												
Average Thickness		micron	D-374-C	15	18	20	23	25	30	35	40	50
		gauge		60	72	80	92	100	120	140	160	200
		mils		0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	2.0
Thickness Variation		% (±)		3								
Density		g/cc		0.905								
Average Substance		g/m^2		13.6	16.3	18.1	20.8	22.6	27.2	31.7	36.2	45.2
Surface tension (min.)		dynes/cm	D-2578	38								
Kinetic COF	UT-UT		D-1894	0.20 - 0.30								
Yield		m^2/Kg	D-4321	73.7	61.4	55.2	48.0	44.2	36.8	31.6	27.6	22.1
		in^2/lb	D-4321	51816	43168	38809	33747	31075	25873	22217	19404	15537
Optical Data												
Gloss (45 °)		gardner	D-2457	>85								
Haze		%	D-1003	1.8 - 3.0				2.2 - 3.5				
Mechanical Data												
Tensile Strength	MD	kg/cm^2	D-882	1100 - 1500								
	TD			2500 - 2800								
Elongation	MD	%	D-882	140 - 200								
	TD			30 - 70								
Thermal Data												
Shrinkage (120 °C/248°F, 5 min.)	MD	%	D-1204	3.0 - 5.0								
	TD			0.5 - 2.0								
Seal Initiation Temp.	UT	°C / °F	CTM	95 / 203								
SIT Variation (±)		°C / °F	CTM	3 / 37.4								
Heat Seal Strength	UT	g/25 mm	CTM	400	425	450	450	500				575
Hot Tack Strength	UT	g/25 mm	@125°C	330				350				
			@257°F									
Barrier Data												
MVTR (38 °C, 90%RH)		$g/m^2/day$	F-1249	<8.0	<7.0	<6.0	<5.0	<4.5	<4.0	<3.5	<3.0	<3.0
MVTR (100 °F, 90%RH)		$g/100in^2/day$		<0.51	<0.45	<0.38	<0.32	<0.29	<0.25	<0.22	<0.19	<0.19

CTM : Cosmo Test Method MD : Machine Direction TD : Transverse Direction HS : Heat sealable

Updated as on Dec - 2022

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