

CF COSMO FILMS
Engineered to Enhance

(A business of Cosmo First Limited)

PET G HIGH SHRINK FILMS

Engineered to enhance Appeal



INDIA | AMERICAS | EUROPE | APAC

Properties	Ref.	Units	ASTM#/Test Method	CF-B0-MSPF	
Physical Data					
Average Thickness		micron	D-374-C	40	45
		gauge		160	180
		mils		1.6	1.8
Density Tolerance (±) 0.02		g/cc		1.28	1.28
Average Substance		g/m ²		51.2	57.6
Surface tension		dynes/cm	D-2578	40 - 42	
Kinetic COF Static / Dynamic	A/B			0.50/0.45	
Yield		m ² /kg	D-4321	19.5	17.4
		in ² /lb		13732	12206
Optical Data					
Haze		%	D-1003	<5	<5
Mechanical Data					
Tensile Strength	MD	kg/ cm ²	D-882	500	500
	TD			3000	3000
Elongation	MD	%	D-882	500	500
	TD			70	70
Thermal Data					
Shrinkage Tolerance (±) 2 %	MD	%	At 100°C x 30 Sec., in hot water	-5.0	
	TD			66.0	

CTM : Cosmo Test Method

MD : Machine Direction

TD : Transverse Direction

BO : Untreated

Disclaimer: The information provided above is based on COSMO FILMS 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.

- These films are produced on a state of the art 8.7 meter wide Bruckner line, specially designed for producing High Shrink Films (maximum width line for producing PET-G Shrink Film).
- The line is only of its kind in the world and has the distinction of being the largest line producing Shrink PET Films.
- PET-G Shrink Film is produced under Class 100,000 Clean room conditions.
- Vacuum & Twin-screw extrusion technology restricting polymer degradation compared to old technology.

FEATURES OF PET-G FILMS

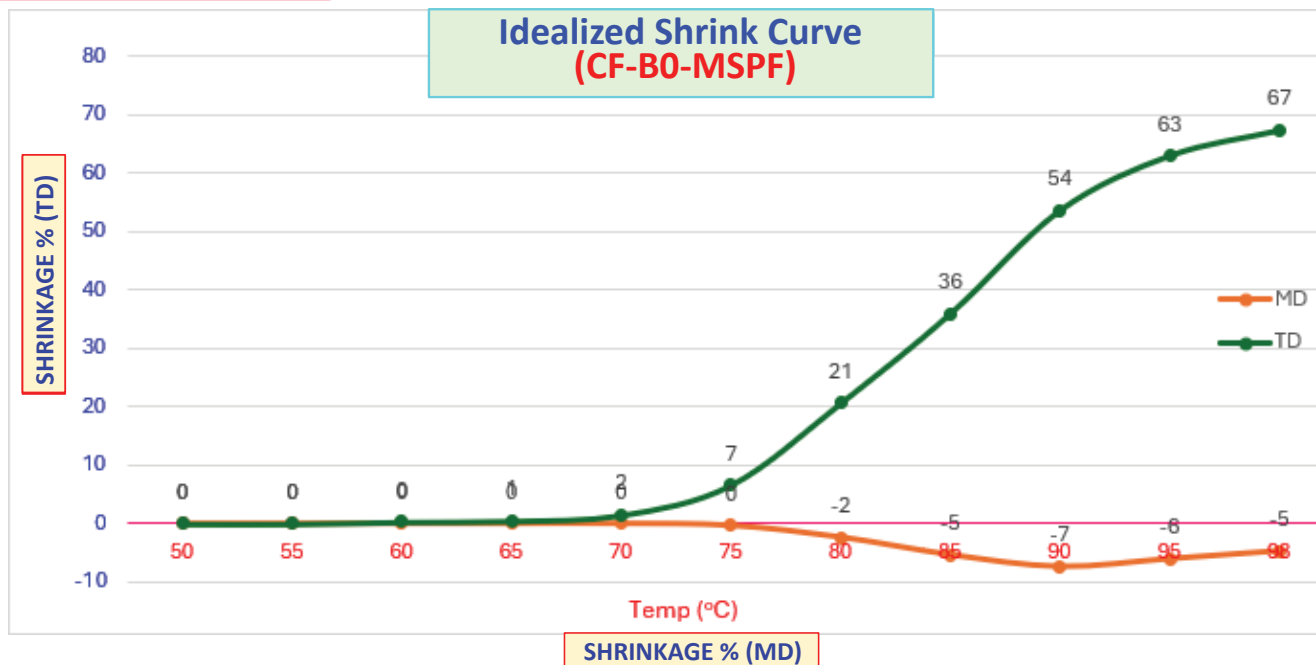
FEATURES

- Excellent and uniform heat shrinkage
- Suitable for reverse printing
- High clarity and gloss
- Excellent ink anchorage
- Suitable for steam & hot air
- TD 78% MD 0-2%
- High gloss & Low haze

APPLICATIONS

- Best suited for full body Shrink sleeves, Seal caps.

IDEALIZED SHRINK CURVE



STORAGE & HANDLING

- High shrink PET film should not be stored in temperature above 30°C (86°F)
- Film should not be exposed to direct sunlight.
- Recommended use of material within 6 months from the date of dispatch.
- Ideal storage humidity is 40-70% RH
- Cosmetics, Personal care, Dairy food, Beverages and Pharmaceutical packaging.

REGULATORY : Complies with US FDA, EC and REACH regulations. It also complies with sustainability requirements i.e. Single use application.



Properties	Ref.	Units	ASTM#/Test Method	CF-B0-HSPF			
Physical Data							
Average Thickness		micron	D-374-C	40	45	50	60
		gauge		160	180	200	240
		mils		1.6	1.8	2.0	2.4
Density Tolerance (±) 0.02		g/cc		1.28	1.28	1.28	1.28
Average Substance		g/m ²		51.2	57.6	64	76.8
Surface tension		dynes/cm	D-2578	40 - 42			
Kinetic COF Static / Dynamic	A/B			0.50/0.45			
Yield		m ² /kg	D-4321	19.5	17.4	15.6	13.0
		in ² /lb		13732	12206	10985	9155
Optical Data							
Haze		%	D-1003	<5	<5	<5	<5
Mechanical Data							
Tensile Strength	MD	kg/ cm ²	D-882	500	500	500	500
	TD			3000	3000	3000	3000
Elongation	MD	%	D-882	500	500	500	500
	TD			70	70	65	60
Thermal Data							
Shrinkage Tolerance (±) 2 %	MD	%	At 100°C x 30 Sec., in hot water	2.0			
	TD			78.0			

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- Excellent ink anchorage

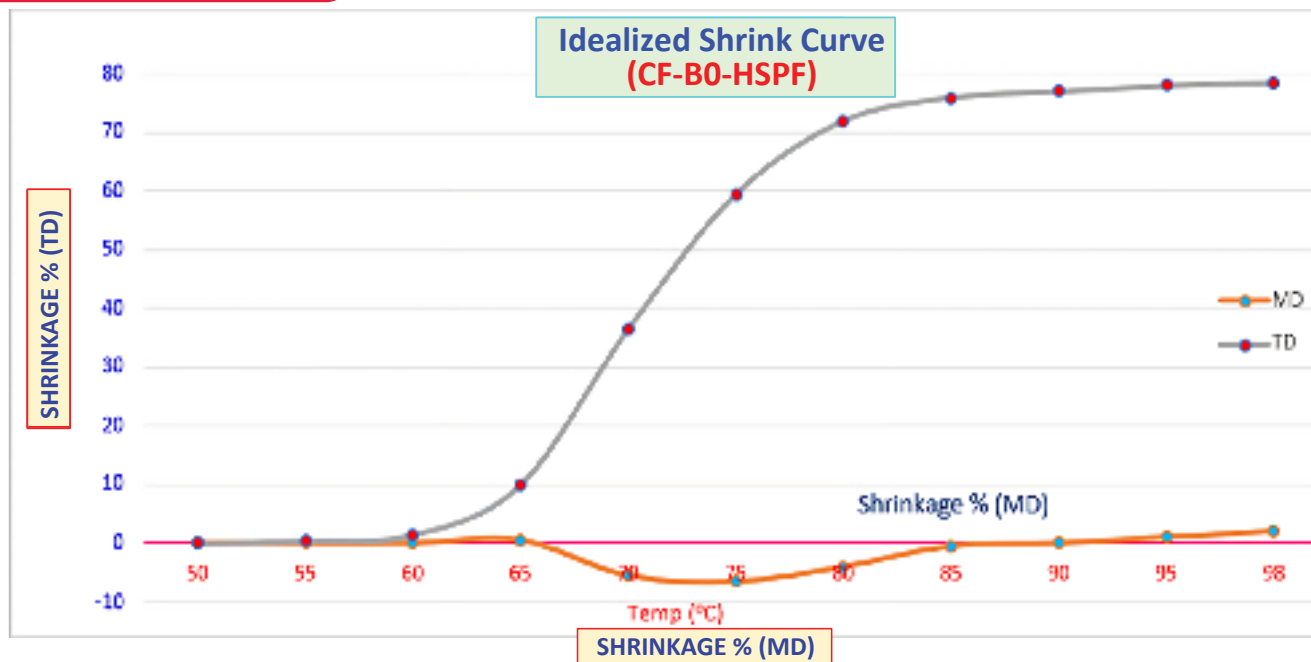
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IDEALIZED SHRINK CURVE



REGULATORY : Complies with US FDA, EC and REACH regulations. It also complies with sustainability requirements i.e. Single use application.



Properties	Ref.	Units	ASTM#/Test Method	CF-B0-HSPF(LSF)	
Physical Data					
Average Thickness		micron	D-374-C	40	45
		gauge		160	180
		mils		1.6	1.8
Density Tolerance (±) 0.02		g/cc		1.28	1.28
Average Substance		g/m ²		51.2	57.6
Surface tension		dynes/cm	D-2578	40 - 42	
Kinetic COF Static / Dynamic	A/B			0.50/0.45	
Yield		m ² /kg	D-4321	19.5	17.4
		in ² /lb		13732	12206
Optical Data					
Haze		%	D-1003	<5	<5
Mechanical Data					
Tensile Strength	MD	kg/ cm ²	D-882	500	500
	TD			3000	3000
Elongation	MD	%	D-882	500	500
	TD			70	70
Thermal Data					
Shrinkage Tolerance (±) 2 %	MD	%	At 100°C x 30 Sec., in hot water	0.0	
	TD			75.0	

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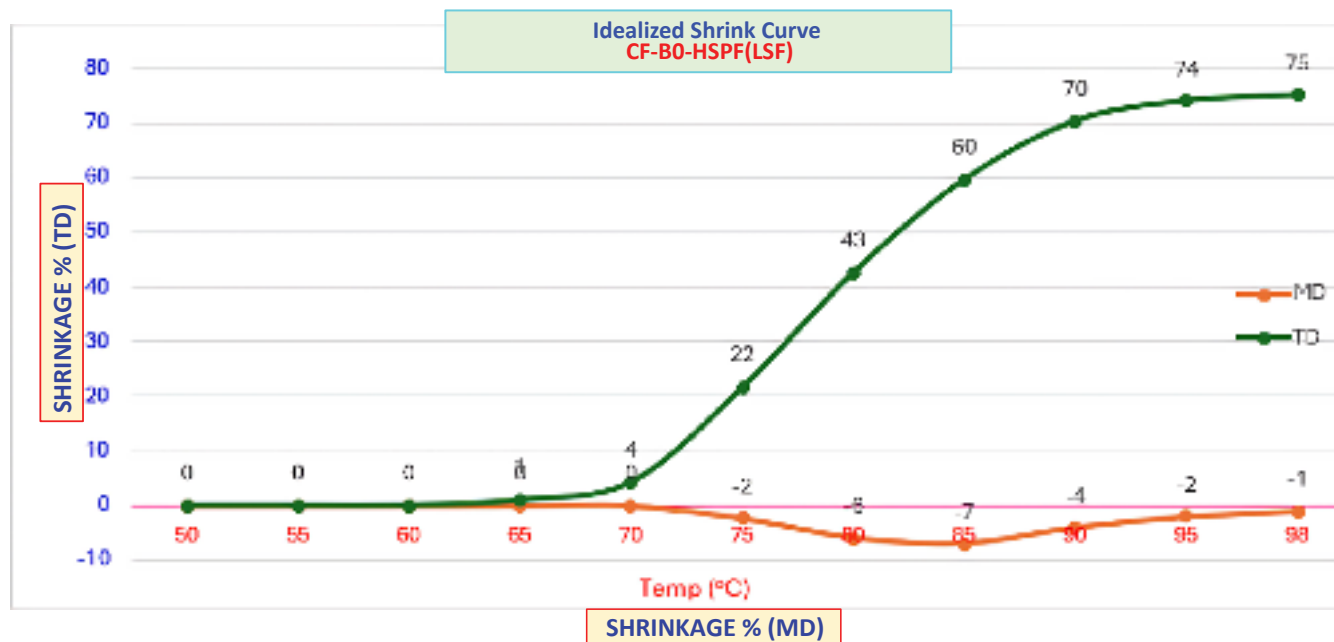
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About Us

Cosmo Films is one of the businesses of Cosmo First Limited with more than 42 years into existence. Cosmo First Limited has diverse businesses including Cosmo Films, Cosmo Speciality Chemicals (Coatings, Adhesive, Masterbatches and Textile Chemicals), Cosmo Plastech (temper proof containers), Cosmo Sunshield (Window & Security Films), Zigly (D2C omnichannel Petcare brand) and Philanthropic arm Cosmo Foundation.

With manufacturing units in India & Korea and warehousing in different parts of the World, Cosmo Films is a global leader in offering specialty BOPP, BOPET, PET G & CPP films for Sustainable Packaging, Labels (shrink wrap, Face stock films, labels for injection moulded containers and wrap around), Lamination (thermal and wet lamination), Synthetic Paper, and various industrial applications. The company has been at the forefront of developing customer-centric solutions to deliver the finest product and service experience, backed by innovation, people, and processes.

Installed Production Capacity

BOPP Films: 2,00,000 TPA
CPP Films: 9,000 TPA
Thermal Films: 40,000 TPA
Coated Films: 25,000 TPA
Metalized Films: 30,000 TPA

Infrastructure

9 BOPP Production Lines
2 CPP Lines
8 Extrusion Coating Lines
6 Gravure Coating Lines
5 Metalizers

Certifications

ISO 9001: 2015 - Quality Management System
BRCGS - Global Standard For Packaging Material System
ISO 14001: 2015 - Environment Management System
FSSC 22000 - Food Safety System Certification



MANUFACTURING FACILITIES
India: 3

SALES OFFICES
India: 6 | US | Germany | Korea
Japan

CUSTOMER FOOTPRINTS
100 Countries

WAREHOUSES
Canada: 1 | US: 7 | Korea: 1 | Japan: 1
Germany: 2 | Mexico: 1

CORPORATE/REGD. OFFICE:

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VADODARA

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Near Inox, Off N.H. No 8, Taluka: Karjan,
District: Vadodara- 391240
Ph: +91 2666 669669

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