

PET G HIGH SHRINK FILMS

Engineered to enhance Appeal





	micron gauge mils g/cc	D-374-C	40 16	
	gauge mils	D-374-C	16	
	mils	D-374-C		
			1.0	
	g/cc			
			1.2	
	g/m²		51.	
	dynes/cm	D-2578		
A/B				
	m²/kg	D 4004	19.5	
	in²/lb	D-4321	1373	
	0	ptical Data		
	%	D-1003	<5	
	Mechanical Data			
MD	ka/ cm²	D 882	500	
TD	kg/ cm	D-002	3000	
MD	0/2	D-882	500	
TD	70	D-002	70	
	Th	ermal Data		
MD TD	%	At 100°C x 30 Sec., in hot water		
M	1D : Machine Direct	ion TD : Transve	erse Direction	
ecific productions ate of the a	ct attributes or the art 8.7 meter wide	e suitability of products for spe	ecific applicat	
i (MD TD MD TD MD TD based on cific producte of the eng PET-G several and order Class	m²/kg in²/lb % Mec MD TD kg/ cm² Th MD TD MD: Machine Direct based on COSMO FILMS con cific product attributes or the ote of the art 8.7 meter wide ng PET-G Shrink Film). vorld and has the distinction	m²/kg in²/lb Optical Data % D-1003 Mechanical Data MD kg/ cm² D-882 TD % D-882 TD	

-5.0 66.0 BO : Untreated ovided as guidelines. They do not

CF-BO-MSPF

45 180 1.8

1.28

57.6

17.4 12206

<5

40 - 42

0.50/0.45

- ing High Shrink Films
- T Films.
- 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

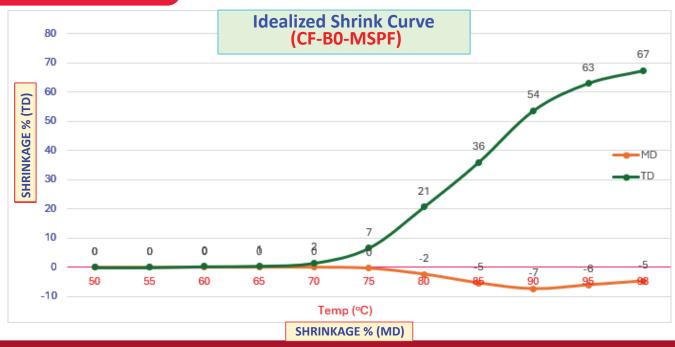
APPLICATIONS

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

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.

IDEALIZED SHRINK CURVE



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

Pro	perties	Ref.	Units	ASTM Me
			Р	hysica
			micron	
Average T	hickness		gauge	D-
			mils	
Density Tolerance	(±) 0.02		g/cc	
Average S	Substance		g/m²	
Surface te	nsion		dynes/cm	D
Kinetic CC Static / Dy		A/B		
			m²/kg	
Yield			in²/lb	
			C	Optic
Haze			%	[
			Ме	chan
Tensile Str	renath	MD	ka/ cm²	D
TOTISHO OU	Crigur	TD	kg/ cm²	
Elongation	1	MD	- %	
Liongation		TD	70	
			Ţ	hern
Shrinkage		MD	<u></u> %	At 10
Tolerance	(±) 2 %	TD		in
CTM : 0	Cosmo Test Method	١	MD : Machine Direc	ction
	tion provided above guarantee of any s			
	are produced on a width line for produ			de Brud
The line is or	nly of its kind in th	e world and	has the distinctio	on of be
The line is o				

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/m²		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		m²/kg	D-4321	19.5	17.4	15.6	13.0	
		in²/lb		13732	12206	10985	9155	
Optical Data								
Haze		%	D-1003	<5	<5	<5	<5	
Mechanical Data								
Tensile Strength	MD	kg/ cm²	D-882	500	500	500	500	
rensile Strength	TD			3000	3000	3000	3000	
Elongation	MD	- %	D-882	500	500	500	500	
	TD	70		70	70	65	60	
Thermal Data								
Shrinkage	MD	- %	At 100°C x 30 Sec., in hot water	2.0				
Tolerance (±) 2 %	TD	/0				78.0		

TD: Transverse Direction BO: Untreated

ests, which are indicative only and provided as guidelines. They do not ty of products for specific applications.

- r line, specially designed for producing High Shrink Films
- the largest line producing Shrink PET Films.
- ions.
- dation compared to old technology.

FEATURES OF PET-G FILMS

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- Excellent imk anchorage

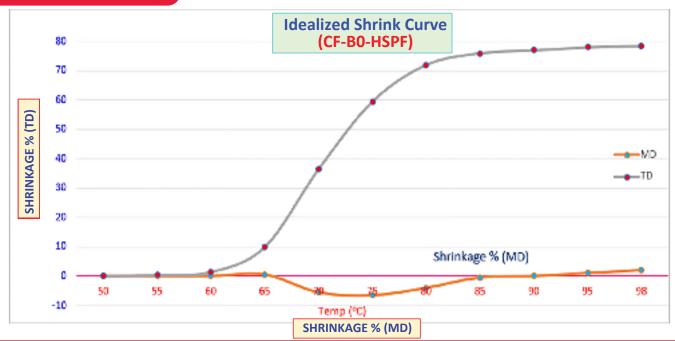
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IDEALIZED SHRINK CURVE



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-H	SPF(LSF)
		Ph	nysical Data		
		micron		40	45
Average Thickness		gauge	D-374-C	160	180
		mils		1.6	1.8
Density Tolerance (±) 0.02		g/cc		1.28	1.28
Average Substance		g/m²		51.2	57.6
Surface tension		dynes/cm	D-2578	40) - 42
Kinetic COF Static / Dynamic	A/B			0.5	0/0.45
\ <i>r</i>		m²/kg	D 4004	19.5	17.4
Yield		in²/lb	D-4321	13732	1220
		0	ptical Data		
Haze		%	D-1003	<5	<5
		Мес	chanical Data		
onoile Strongth	MD	1. m / m m 2	D 000	500	500
Tensile Strength	TD	$- kg/ cm^2 D-882$	D-882	3000	3000
longation	MD	0/	D 000	500	500
Elongation	TD	- %	D-882	70	70
		Th	nermal Data		
Shrinkage	MD	0/	At 100°C x 30 Sec.,	0	.0
Tolerance (±) 2 %	TD	- %	in hot water	75.0	
	10				

		Method						
Physical Data								
	micron		40	45				
	gauge	D-374-C	160	180				
	mils		1.6	1.8				
	g/cc		1.28	1.28				
	g/m²		51.2	57.6				
	dynes/cm	D-2578	40 - 42					
A/B			0.50/0.45					
	m²/kg	D 4224	19.5	17.4				
	in²/lb	D-4321	13732	12206				
Optical Data								
	%	D-1003	<5	<5				
Mechanical Data								
MD	MD kg/ cm² D	D 002	500	500				
TD		D-002	3000	3000				
MD	- %	D-882	500	500				
TD			70	70				
Thermal Data								
MD	%	At 100°C x 30 Sec., in hot water	0.0					
TD	/0		75	5.0				
	MD TD MD TD MD	micron gauge mils g/cc g/m² dynes/cm A/B m²/kg in²/lb % MD	Physical Data micron gauge D-374-C mils g/cc g/m² dynes/cm D-2578 A/B m²/kg in²/lb D-4321 Optical Data MD kg/ cm² D-882 TD % D-882 TD MD m/b MD m/b MD MD TD % At 100°C x 30 Sec.,	Physical Data				

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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

5 Metalizers

9 BOPP Production Lines2 CPP Lines8 Extrusion Coating Lines6 Gravure Coating Lines

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



CORPORATE/REGD. OFFICE:

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