

COSMO SYNTHETIC PAPER

Engineered to enhance **longevity**

The Choice of Modern-Age Commercial Printers
& Label Convertors, Security Printers, Small &
Large Format Printers & Photo-Lab owners.

NON-TEARABLE | EXCELLENT PRINTABILITY
ENVIRONMENT FRIENDLY | OIL & WATER RESISTANT

INDIA | AMERICAS | EUROPE | APAC



Cosmo Synthetic Paper

It is a co-extruded, white opaque, polypropylene based film which resembles paper in appearance. It is printable with most available printing technologies which include Conventional & UV Offset, Water & UV Flexo, Letterpress, Screen, Thermal Transfer and Digital Printing (HP Indigo technologies & Dry Toner printing technologies).

Synthetic paper is a replacement of paper in applications where durability and longevity is desired. It is non-tearable, water and oil resistance and have excellent lay flatness. The versatility of synthetic paper is reflected in the vast number of applications where it can be used. This includes areas such as commercial printing, tags & labels, retail & packaging, identification & credentials and outdoors.

Cosmo Synthetic Paper is EU 10/2011, USFDA, REACH, RoHS compliant and ISCC certified.

Grades	Product Code	Product Description	Available Thickness						
CSP Classic (Grade-1) Available in Sheet and Reel	CSPR-2/ CSPS-2 (M)	Standard Synthetic paper (Uncoated)	Microns	95	120	150	175	195	
			GSM	69	88	106	127	140	
			MIL	4	5	6	7	8	
			Microns	215	275	330	430		
			GSM	155	202	231	305		
			MIL	9	11	13	17		
CSP Unicoat (Grade-2) Available in Reel	CSPR-2(M) TC & CSPR-2/ CSPS-2 (MQ) TC	Top Coated Synthetic paper	Microns	95	205				
			GSM	71.75	152.6				
			MIL	4	8				
CSP Dualcoat (Grade-3) Available in Sheet and Reel	CSPR-2/ CSPS-2 (M) BTC	Both Side Coated Synthetic paper	Microns	205	254	275	305	356	406
			GSM	156.6	182.5	196.5	210.5	242.5	286.5
			MIL	8	10	11	12	14	16
CSP Dura Coat (Grade-4) Available in Sheet and Reel	CSPR-2/ CSPS-2 (M) H BTC	Both Side Coated Synthetic paper	Microns	95	152	175	205	254	305
			GSM	76.5	113.5	127.5	156.6	177.2	215.5
			MIL	4	6	7	8	10	12
			Microns	406	457				
			GSM	279.2	317.5				
			MIL	16	18				
CSP DigiLux (Grade-5) Available in Sheet and Reel	CSPR-2/CSPS-2 (M) HR BTC	Both Side Coated Laser Printable Synthetic Paper (Natural Shade)	Microns	200	254	280	305	360	
			GSM	227.2	288	324.9	371.2	422.7	
			MIL	8	10	11	12	14	
CSP DigiLux-MW (Grade-6) Available in Sheet and Reel	CSPR-2/CSPS-2 (M) MW BTC	Both Side Coated Laser Printable Synthetic Paper (White Shade)	Microns	150	175	200	230	280	
			GSM	163.7	201.4	227.2	250.9	324.9	
			MIL	6	7	8	9	11	
CSP PSP (Grade-7) Available in Sheet and Reel	CSPR-2/CSPS-2 (M) PSP	Both side Coated Laser Printable PET based Synthetic Paper (White Shade)	Microns	115					
			GSM	164.5					
			MIL	4.5					
CSP FlexoTuff (Grade-8) Available in Reel	CSPR-2 (M) FLEXI 	Both Side Coated High Tear Resistance Synthetic paper	Microns	125	150	200	250		
			GSM	125.5	145.5	197.5	249.5		
			MIL	5	6	8	10		
CSP Opaque Dual Coat (Grade-9) Available in Sheet and Reel	CSPR-2/ CSPS-2 (M) O BTC	Both Side Coated Synthetic paper with 100 % Opacity	Microns	152	205	254			
			GSM	122.7	149.4	177.2			
			MIL	6	8	10			

Grades	Printing Compatibility	Size Availability
CSP Classic (Grade-1)	- Conventional & UV Offset - Screen Printing - For best results, use fast-drying inks.	Available in Reel and Sheet Formats Maximum Sheet Size - 762 mm x 1193 mm Maximum Reel Width: 1,720 mm
CSP Unicoat (Grade-2)	- UV & Water-Based Flexographic - Thermal Transfer Printing - UV & Conventional Offset - Screen printing - UV Inkjet - HP Latex - HP Indigo	Reel Form Only Maximum Sheet Size - 762 mm x 1193 mm Maximum Reel Width: 1,580 mm
CSP Dualcoat (Grade-3)	- UV & Water-Based Flexographic - Thermal Transfer Printing - UV & Conventional Offset - Screen printing - UV Inkjet - HP Latex - HP Indigo	Available in Reel and Sheet Formats Maximum Sheet Size - 762 mm x 1193 mm Maximum Reel Width: 1,580 mm
CSP Dura Coat (Grade-4)	- UV & Water-Based Flexographic - UV & Conventional Offset - Screen printing - Thermal Transfer Printing - UV Inkjet	Available in Reel and Sheet Formats Maximum Sheet Size - 762 mm x 1193 mm Maximum Reel Width: 1,580 mm
CSP DigiLux (Grade-5)	- Laser (Dry Toner) – Compatible with printers from Xerox, Konica Minolta, Ricoh, Canon and other leading brands - Suitable for UV & Water-Based Flexographic Printing - Thermal Transfer Printing - UV & Conventional Offset - Screen Printing - Shade: Natural Shade	Available in Reel and Sheet Formats
CSP Digilux-MW (Grade-6)	- Laser (Dry Toner) – Compatible with printers from Xerox, Konica Minolta, Ricoh, Canon and other leading brands - Suitable for UV & Water-Based Flexographic - Thermal Transfer Printing - UV & Conventional Offset - Screen Printing - Shade: More White	Available in Reel and Sheet Formats Maximum Sheet Size - 762 mm x 1193 mm Maximum Reel Width: 1,580 mm
CSP PSP (Grade-7)	- Laser (Dry Toner) – Compatible with printers from Xerox, Konica Minolta, Ricoh, Canon and other leading brands - Suitable for UV & Water-Based Flexographic - Thermal Transfer Printing - UV & Conventional Offset - Screen Printing	Available in Reel and Sheet Formats Maximum Sheet Size - 762 mm x 1193 mm Maximum Reel Width: 1,580 mm
CSP FlexoTuff (Grade-8)	- UV & Water-Based Flexographic - Thermal Transfer Printing Key Application: - Designed for applications requiring high tear resistance, ensuring <i>excellent perforation and die-cutting performance.</i>	Available in Reel Form Only Maximum Reel Width: 1,580 mm
CSP Opaque Dual Coat (Grade-9)	- UV & Water-Based Flexographic - UV & Conventional Offset - Thermal Transfer Printing - UV Inkjet - Screen Printing	Available in Reel and Sheet Formats Maximum Sheet Size - 762 mm x 1193 mm Maximum Reel Width: 1,580 mm

Converting Recommendations for CSP

01

Die Cutting

Before going for die cutting, following points need to be taken into consideration:

- Blades to be used should be sharp enough and free from nicks
- Avoid right angles & sharp corners as it may cause tearing
- Right angle cuts should be made with a 1/16th inch radius hole
- Use double beveled blade

02

Punching

It is possible to be done on CSP but to obtain best results, it is recommended to use round holes rather than square shaped as they may lead to tearing

03

Perforation

It is recommended to use ≤ 0.5 mm tie (joint between two cuts) and the cut portion should be ≥ 2.0 mm to avoid any wander. Optimum pressure should be applied on the die for seamless cutting

04

Hot Foil Stamping

CSP is suitable for hot foil stamping

05

Folding

- Though folding is possible to be done on CSP, scoring is recommended for better results
- To achieve flatness after folding, it is recommended to keep CSP under nipping for minimum 30 minutes

06

Adhesive Compatibility & Lamination

It is recommended to use hot melt adhesive or any other suitable high tack adhesive for bonding with CSP. It is suitable for thermal lamination process

07

Guillotining

While doing guillotining on CSP, ensure that the blades are sharp and clean

HP INDIGO CERTIFIED

Commercial Printing

Applications

- Maps & Calendars
- Posters
- Coasters & Table Mats
- Hospital Folders
- Brochures & Leaflets
- Photo Albums
- Menu Cards
- Children's Books & Religious Books
- Gaming Cards



Tags & Labels

Applications

- Food & Pharma Packaging Labels
- Electronic Appliances Labels
- Apparel & Footwear Tags/Labels
- Chemical Drum Labels
- Paint & other Container Labels
- Construction Site Stickers
- Warning Labels on Appliances
- Airport Transfer Tags
- Wristbands
- Track & Trace Labels
- Steel Bar Tags



Retail & Packaging

Applications

- POP Graphics
- Posters
- Indoor Billboards
- Banners
- Backlit Displays
- Shelf Talkers
- Dangers
- Shelf Labels



Identification & Credentials

Applications

- Visiting Cards
- Healthcare & Insurance Cards
- Marksheets & Certificates
- Birth Certificates
- Membership Cards
- Driver's License
- Voter ID Cards
- Legal Documents



Printing Recommendations for CSP

Offset Printing

Printing on CSP by offset printing method requires certain care. This is so because the mechanism of ink drying on normal paper follows absorption as well as oxidation on the surface but on CSP, the ink dries due to surface oxidation only. Hence, drying takes longer time as compared to art paper/card. Generally, when the material does not dry fast, it gives rise to ink set off problems. Therefore, special care must be taken to ensure quick drying to avoid ink set off. It is recommended to use Fast drying (oxidative inks).

Flexographic

- To avoid misregistration, set the tension at the lowest possible level
- Adjust the settings to ensure that the paper surface temperature never exceeds 80°C, and immediately after putting the paper through the dryer, cool the surface of CSP to as close to room temperature as possible

Digital Printing HP Indigo/Liquid Toner

- Care needs to be taken for choosing the correct media selection settings
- We recommend thorough testing of the material in its intended application prior to use

Thermal Transfer (TTR)

- Thermal transfer printing is a process that uses heat to create an impression on the print media. It uses a carbon ribbon that upon heating is moved to the substrate
- Top coated and both sides coated CSP is compatible to be printed through thermal transfer printing

Digital Laser printing (Dry Toner)

- Do proper fanning of sheets prior to load in tray
- It is recommended to involve the service engineer for media Settings
- If require adjust image transfer current to get good quality print result

About Us

Cosmo Films is a global leader in specialty films for packaging, lamination, labelling and synthetic paper. With engineering of innovative products and sustainability solutions, Cosmo Films over the years has been partnering with worlds' leading F&B and personal care brands and packaging & printing converters to enhance the end consumer experience. With state-of-the-art manufacturing facilities in India and distribution, warehousing & sales offices in different parts of the world, 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: 2,76,000 TPA

CSP : 7,200 TPA

CPP Films: 27,000 TPA

BOPET Films: 30,000 TPA

PET G Films: 12,000 TPA

Thermal Films: 25,500 TPA

Coating Films: 40,800 TPA

Metalized Films: 56,800 TPA

Infrastructure**

10 BOPP Production Lines

2 CSP Line

3 CPP Lines

1 BOPET Line

5 Thermal Lamination Lines

12 Gravure Coating Lines

10 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

ISCC PLUS - International Sustainability and Carbon Certification.

Sustainable Manufacturing Practices

The Company is committed to environmentally friendly and socially responsible manufacturing processes. Cosmo strives to establish a sustainable manufacturing model by:

1. Reusability - Cosmo Synthetic paper is made of polypropylene and is therefore 100% reusable in category 5 (PP).
2. Environment Friendly - Cosmo synthetic paper has no impact on forest resources it is 100% Tree Free.
3. The Cosmo manufacturing process uses very less water than traditional paper production, thus preserving water resources.
4. Regeneration of waste/scrap material to be used as input for production.
5. Recycling of paper cores and use of plastic and aluminum cores for in-house requirements, resulting in reduced use of paper core.
6. Partnering with customers for packaging structure rationalization to reduce material consumption.

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MANUFACTURING FACILITIES

India: 4



SALES OFFICES

India: 6 | US: 1 | Germany: 1
Japan: 1 | Korea: 1



CUSTOMER FOOTPRINTS

100+ Countries



WAREHOUSES

Canada: 1 | US: 3 | Korea: 1 | Japan: 1
Germany: 2 | Mexico: 1

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SYNTHETIC PAPER

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