

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/Wet & UV Offset, Wet & 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 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						Sizes	
CSP Classic (Grade-1) Available in Sheet and Reel	CSPR-2/ CSPS-2 (M)	Standard Synthetic paper (Uncoated)	Microns	95	120	150	175	195	Maximum Width (Sheet) 1200mm Maximum Width (Reel) 1750mm	
			GSM	69	88	106	127	140		
			MIL	3.8	4.8	6.0	7.0	7.8		
			Microns	215	275	330	375	430		
			GSM	155	202	231	266	305		
			MIL	8.6	11.0	13.2	15.0	17.2		
CSP Unicoat (Grade-2) Available in Reel	CSPR-2 (M) TC	Top Coated Synthetic paper	Microns	95	120	150	170	190	210	Maximum Width (Reel) 1580mm
			GSM	72	98	109	123	136	146	
			MIL	3.8	4.8	6.0	6.8	7.6	8.4	
CSP Dualcoat (Grade-3) Available in Sheet and Reel	CSPR-2/ CSPS-2 (M) BTC	Both Side Coated Synthetic paper	Microns	95	125	150	175	200	Maximum Width (Sheet) 1200mm Maximum Width (Reel) 1580mm	
			GSM	83	95	109	132	146		
			MIL	3.8	5.0	6.0	7.0	8.0		
			Microns	205	250	275	305	330		
			GSM	153	183	197	211	234		
			MIL	8.0	10.0	11.0	12.0	13.2		
			Microns	356	380	406	435	510		
			GSM	243	262	287	299	345		
			MIL	14.0	15.2	16.0	17.4	20.0		
CSP FlexoTuff (Grade-4) Available in Reel	CSPR-2 (M) FLEXI 	Both Side Coated High Tear Resistance Synthetic paper	Microns	125	150	200	250	Maximum Width (Reel) 1580mm		
			GSM	126	146	198	246			
			MIL	5.0	6.0	8.0	10.0			
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	280	305	335	360	Maximum Width (Sheet) 1200mm Maximum Width (Reel) 1580mm	
			GSM	227	321	371	397	423		
			MIL	8.0	11.0	12.0	13.2	14.2		
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	Maximum Width (Sheet) 1200mm Maximum Width (Reel) 1580mm	
			GSM	164	201	227	251	321		
			MIL	6.0	7.0	8.0	9.1	11.0		
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					Maximum Width (Sheet) 1200mm Maximum Width (Reel) 1580mm	
			GSM	164.5						
			MIL	6.5						

CSP Classic
(Grade-1)

Available in
Sheet and Reel



CSP Unicoat
(Grade-2)

Available in
Reel



CSP Dualcoat
(Grade-3)

Available in
Sheet and Reel



CSP FlexoTuff
(Grade-4)

Available in
Reel



CSP DigiLux
(Grade-5)

Available in
Sheet and Reel



CSP DigiLux-MW
(Grade-6)

Available in
Sheet and Reel



Print Process Compatibility Matrix

Print Process	CSP Classic CSPR-2 (M)	CSP Unicoat CSPR-2 (M) TC	CSP Dualcoat CSPR-2 (M) BTC	CSP FlexoTuff CSPR-2 (M) FLEXI	CSP DigiLux CSPR-2 (M) HR BTC	CSP DigiLux-MW CSPR-2 (MW) BTC	CSP PSP CSPR-2/ CSPS-2 (M) PSP
Conventional Offset	Yes (Recommended to use fast curing inks for best results)	Yes	Yes	No	Yes	Yes	Yes
UV Offset	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Screen	Yes	Yes	Yes	No	Yes	Yes	Yes
Flexography (UV based inks)	No	Yes	Yes	Yes	Yes	Yes	Yes
Flexography (Water based inks)	No	Yes	Yes	Yes	Yes	Yes	Yes
Thermal Transfer (TTR)							
Compatible Ribbons							
Resin	Wax Resin						
Ricoh B110CR	Ricoh B110A	No*	Yes	Yes	Yes	Yes	Yes
Armor AXR 7+	Armor AXR FH 7+						
Mastercorp TTR Z400							
Printing compatible even with local brands (Resin and Wax-Resin ribbons). It is recommended to check suitable speed and energy combination while printing with different ribbons (wax resin/resin ribbons) for optimum results.							
Letterpress	No	Yes	Yes	No	Yes	Yes	Yes
HP Indigo 3000, 5000, 6000, 7000 ser, 10000, 12000, 15000 & 25000	No	Yes	Yes	No	Yes	Yes	Yes
Water & Solvent based Inkjet	No	No	No	No	No	No	No
UV Inkjet (HP Scitex FB 550)	No	Yes	Yes	No	Yes	Yes	Yes
HP - Latex	No	Yes	Yes	No	Yes	Yes	Yes
Laser Printer (Dry Toner) production printers Xerox, Konica Minolta, Ricoh, Kodak, Canon	No	No	No	No	Yes	Yes	Yes

CSP - Cosmo Synthetic Paper TC - Top Coated BTC - Both Side Coated MW - More White HR - Heat Resistance

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

Commercial Printing

Applications

- Maps & Calendars
- Posters
- Coasters & Table Mats
- Hospital Folders
- Recommended Microns: 120-510
- 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

Recommended Microns: 75-510



Retail & Packaging

Applications

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

Recommended Microns: 175-510



Identification & Credentials

Applications

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

Recommended Microns: 175-510



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.

Flexographic Printing

- 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: 1,96,000 TPA
CSP : 7,200 TPA
CPP Films: 27,000 TPA
BOPET Films: 30,000 TPA
PET G Films : 12,000 TPA
Thermal Films: 26,000 TPA
Coating Films: 36,000 TPA
Metalized Films: 40,000 TPA

Infrastructure

10 BOPP Production Lines
2 CSP Line
3 CPP Lines
1 BOPET Line
6 Thermal Lamination Lines
8 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 - 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.



MANUFACTURING FACILITIES
India: 3



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



CUSTOMER FOOTPRINTS
100+ Countries



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

CORPORATE OFFICE

Cosmo First Limited
1st Floor, Uppals Plaza,M6,
Jasola District Centre
New Delhi- 110025,India
Ph: +91 11 4949 4949

EUROPE OFFICE

Cosmo Films, Netherlands Holding BV
Siriusdreef 17-27, Transpolis Park,
2132 WT Hoofddorp, Netherlands
Ph: +31 23 568 9100

USA OFFICE

Cosmo Films Inc. USA
199 Easy Street, Carol Stream
Illinois - 60188

INDIA MANUFACTURING FACILITIES

AURANGABAD

B-14/8 & 9, MIDC, Waluj, Aurangabad- 431136
Maharashtra, Ph: +91 240 6660000

AURANGABAD (SEZ UNIT)

AL-24/1, MIDC, Shendra Indl. Area
Aurangabad- 431201, Maharashtra
Ph: +91 240 6660730

VADODARA

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

www.cosmosyntheticpaper.com
www.cosmofilms.com
enquiry@cosmofilms.com

COSMO FILMS
Engineered to Enhance