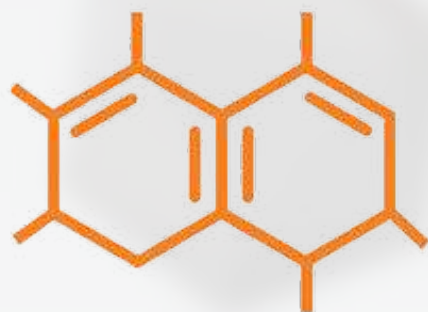




JINDAL
— POLYWRAP —



OUR BUSINESSES

1. Multi-Layered Flexible Packaging Films
2. Corrugated Packaging

The background of the slide is a light gray color, populated with numerous semi-transparent, light gray geometric shapes. These shapes include cubes, hexagons, and other polyhedrons, some of which are in sharp focus while others are blurred, creating a sense of depth. The shapes are scattered across the entire frame.

PLASTIC DIVISION

Introduction

Among the leading multilayered flexible packaging and corrugated box manufacturer in India, Jindal Polywrap has made its name for delivering premium quality and best possible technical support among other things to their clients.

Mr. Abhay Jindal, established this company more than a decade ago, which is now become a fastest growing and reliable manufacturer in India. Our selection of raw material after understanding the customer need have been accepted and appreciated by the customers in terms of quality, finish, cost effective and other parameters. Jindal Polywrap is one of the few manufacturer that follows globally laid quality standards while caring out manufacturing process in order to ensure the best quality delivers.

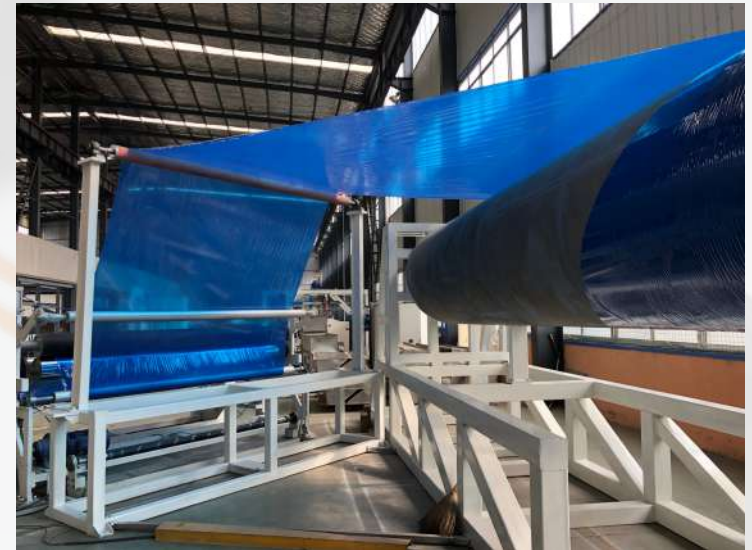
About Us

We are the leading and reliable manufacturer for flexible packaging films and corrugated box in India. Our most premium product spiral laminated film, which is widely accepted by the industry as it helps to be more cost effective while not losing any property of the films intact it helps to enhance the properties of the film. We are well equipped with testing labs, modern technology and skilled labour which helps us to give smooth delivery experience to our customers with highest quality possible. In our production line we have wide range of most advanced machineries in India.



Advanced Capabilities

Our packaging films are manufactured on some of the most advanced equipment in India, utilising both multilayered and mono layer blown with manufacturing capacity of 5450 MT annually and 6 colour printing machine. Jindal Polywrap also has unique and patented technology of spiral cutting and cross lamination for your special applications which can't be match with regular co-extruded films.



Wide Range of Gauges and Materials

We have the capabilities to extrude a wide range of gauges while blending a multitude of resins to meet your most demanding packaging film requirements. Commonly used resins include PE, EVA, and metallocene with many others.

Unmatched Capabilities

As we equipped with most advanced technologies in India. We offer unique capabilities that others can't match. Our multi-process single step production equipment allows for low-cost options without sacrificing quality and performance. our production strength compliments our ability to build strong relationship through superior, tailored solutions, overall value, and fast turn times.





Customer Satisfaction

We listen to our customers before and during our production processes and after production for making improvements according to their suggestions. We provide a superior quality to our clients, which are made using high grade raw materials in compliance with industry standards. Each product is tested to ensure the prescribed standards and specifications by our quality controllers. We are widely equipped with testing machines as well such as :

- Tensile Testing
- Sealing Tester
- Elongation Testing
- Shrinkage Testing
- Opacity Testing
- Corona Treatment Testing
- Dart Testing
- Static Charge Testing and many others.

Shrink Films



Jindal Polywrap manufactures wide range of LDPE Shrink Film with unique formulations of new generation polymers. LDPE Shrink Film is supplied up to 1700 mm width film. While the logo printing facility is supplied with LDPE Shrink Film is up to 1200 mm width. This LDPE Shrink Film that is also used for shrink bundling applications of paper reams cartons, glass bottles, packaged water & beverages, Insulating materials, FMCGs, textiles, fabric and denim cloth reels and packaged beverages.

Product Details:

Types of Shrink Film	• Flat Film Shrink • Shrink Film in Tube form • VCI Shrink Film and Pouch • Mouth Open Shrink Film • Anti-Static Shrink Film • Perforated Shrink Film • Extra Clear Shrink Film
Usage / Application	• Beverages • FMCG • Paper • Bottling Factories • Textile • Engineering Goods
Material Used	MLLDPE, LDPE
Packaging Type	Rolls
Colour	As per Requirement
Pattern	Print and Non- Printed
Thickness	upto 200 Microns
Features	• Excellent Strength • Balanced shrink properties • Improved mechanical features • Prevent contamination • cost effective • Enhanced tear and blow hole (propagation) resistance • Down gauging options • Tailored made film to suit to new generation & European shrink tunnels • Broader sealing window and sealing strength



Stretch Films



Our stretch films are highly stretchable plastic film that is wrapped around loads. The elastic recovery keeps the item tightly bound. In contrast, it can be applied loosely around the loads and shrink tightly with heat. It is frequently used to utilised pallet loads but also used bundling small items.

Product Details:

Types of Shrink Film	• General Purpose Stretch Film • Machine Grade Stretch Film • VCI Stretch Film • Anti-Static Stretch Film • Extended Core Stretch Film
Usage / Application	• Beverages • FMCG • Paper • Textile • Machineries • Export • Furniture • Engineering Goods
Material Used	MLLDPE, LDPE
Packaging Type	Rolls
Colour	As per Requirement
Pattern	Print and Non- Printed
Thickness	upto 150 Microns
Features	• Excellent Strength and Holding Power • Great memory and Tear resistance • Higher Quality • Secure Loads with Sharp Edges • Allow loads to stay better • Higher degree memory • Improved mechanical features • Protects from Dust and Moisture • Prevent contamination • cost effective • Tailored made film to suit your application



Agriculture Stretch Film



Our agricultural stretch films are predominately used to make bales of silage. These are used to provide reliable protection from weathering and moisture for smaller units of feed over longer periods of time thus ensuring that feed retains its high quality. Because of its good adhesive properties, agricultural stretch films create an ideal seal around the bale protecting it from outside influences. The films can be used for both round and square silage bales. Agricultural stretch films are produced using an extrusion blowing process and provide ultimate mechanical durability, with the most modern and high-performance agricultural blow extrusion, film achieves absolute process efficiency. The multi-layer extrusion process ensures agricultural stretch films of exceptionally high quality. Consistent quality assurance guarantees that, in addition to all the outstanding features, an unparalleled level of puncture resistance is attained as well. Thanks to its elasticity, our agriculture stretch films are also suitable for use in high speed baling, a technique that allows making more silage in less time – an essential efficiency factor.

Product Details:

Usage / Application	Agriculture
Material Used	MLLDPE, LDPE
Packaging Type	Rolls
Colour	As per Requirement
Pattern	Print and Non- Printed
Thickness	upto 175 Microns
Features	• Excellent Strength and Holding Power • Great memory and Tear resistance • Higher Quality • Secure Loads with Sharp Edges • Allow loads to stay better • Higher degree memory • Improved mechanical features • Protects from Dust and Moisture • Prevent contamination • cost effective • Tailored made film to suit your application



VCI Films and Pouches



Jindal Polywrap's VCI films offer outstanding corrosion protection for your products. As metal parts no longer need to be oiled before packaging, they are ready for use as soon as they are unpacked.

Thanks to their transparency, VCI films are ideal for export use. As a result, it is no longer necessary to open packaging in order to conduct a spot check in customs, thus ensuring that VCI protection is maintained throughout. The entire manufacturing process for VCI based products is monitored using the strictest testing criteria in our own development laboratory. Here, we apply state-of-the-art analytical methods, from formulation and master batch production to the final inspection of the finished film, all with the ultimate goal of protecting your products.



Product Details:

Types of VCI Film	• VCI Wrapping Film • VCI Shrink Film • VCI Stretch Film • VCI Bottom Seal Pouch • VCI Zip Lock Bag
Usage / Application	• Metal Manufacturers • Automobile Industries • Electrical Packaging or any thing which needs to be protected from rust or corrosion. • Engineering Goods
Material Used	MLLDPE, LDPE and other additives
Packaging Type	Rolls, Pouch, Bags etc.
Colour	As per Requirement
Pattern	Print and Non- Printed as required
Thickness	upto 200 Microns
Features	• Suitable for multi metals like ferrous, non-ferrous and etc. • Excellent barrier properties for moisture, oxygen and etc. • U.V Stabilised • Flame Retardant • Anti Static • ESD Protection





LDPE Poly/Liner Bag

We have been manufacturing bags and films for pharmaceutical, food, automobile packaging industries , which require strict adherence to exact specifications and the highest quality. All of our bags are manufactured with 100% prime virgin resins using good manufacturing practices. Resins used to manufacture Our Poly bags and Drum liners meet FDA 21CFR 177.1 520 regulations as well as being EU compliant.

We understand that the individual industry has diverse needs when it comes to their packaging requirements, but that safety and integrity are absolutely vital in this field. That's why all our packaging is made from high-grade plastic which has been defined as suitable for their use. The plastic is largely inert, ensuring your products stay in excellent condition, safely packaged until they're needed.

Most of our lay flat poly bags are made from seamless tubing with no slits or side seals that can rip. These flat poly bags have an open top, and can be easily heat sealed or closed with tape or twist ties.

Our bags are lightweight and flexible, meaning they will protect your goods from dust and scratches. And, they're made from virgin low density polyethylene (LDPE), so they meet FDA and USDA requirements for food applications. Most of our present pharmaceutical customers prefer bags of thickness of 100 micron(4 mil) or more.

Product Details:

Usage / Application	• Frozen, Sea, Meat and etc. Packaging • Health Care Packaging • Shoe Industry • Tobacco Industry • FnB Pouch Lamination • Automobile Packaging • VCI Poly Bags • Anti-Static Poly bags • Engineering Goods
Material Used	MLLDPE, LDPE and other additives
Packaging Type	Rolls.
Width	upto 1000 mm
Colour	As per Requirement
Pattern	Print and Non- Printed as required



Lamination Film

We offer multi-layer co-extruded Lamination films for adhesive, thermal lamination & other applications. These multi-layered, corona-treated films are designed for lamination using any type of adhesive. These Co-Extruded thermal laminated films are available in a wide range of configurations, including different types of sealing layers, and anti-fog properties. The most benefited is food industry – ready to eat food, edible oil, milk industries as the film is designed to preserve the product for a longer period of time eliminating contamination, bacteria, oxygen ensuring the nitrogen filled in the package retains aroma, freshness and overall life of the product. We also provide lamination films that are engineered to maximise packaging performance on the wide range of converting and food processing equipment found in today's marketplace, catering to various segments such as spice packaging, seafood packaging, meat packaging, frozen food, dairy products, packaging of pharmaceutical equipment such as syringes, gloves, needles, tablets etc.



Product Details:

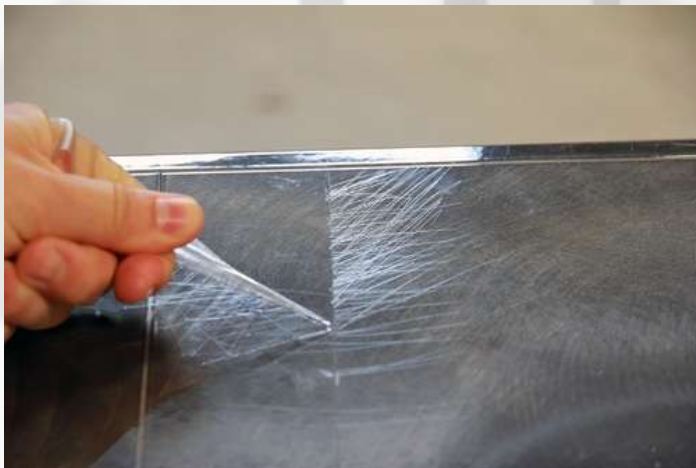
Usage / Application	• Foil Lamination • Frozen, Sea, Meat and etc. Packaging • Health Care Packaging • Food and Snacks Pouch Lamination
Material Used	MLLDPE, LDPE and other additives
Packaging Type	Rolls.
Width	upto 1700 mm
Colour	As per Requirement
Pattern	Print and Non- Printed as required
Thickness	upto 200 Microns



Surface Protection Film



Surface protection films aka SPF is made of specially formulated PE film coated with water based adhesive. It is available in Transparent, Milky and Black/White colours as standard. It provides excellent protection against damages and scratches. It is designed to leave no residue gum or marks when removed from target surface and have a shelf life of 6 months. It can be used on Glass, metal, plywood etc and many other surfaces.



Product Details:

Usage / Application	• Metal Manufacturing Industries • Colour Coated Roofing Sheets • Sunmica and Plywood industries • Aluminium Composite Panels • Wooden Flooringx • Tiles, Marble, Glass and Artificial Marble
Material Used	MLLDPE, LDPE
Packaging Type	Rolls
Colour	As per Requirement
Pattern	Print and Non- Printed
Thickness	upto 150 Microns
Features	• Self adhering film for multiple flat surfaces • Shields surface from dust, moisture and other external factors. • Leave no glue or mark on target surface. • Moisture resistance and splash resistance. • Temperature and UV resistance are also optional. • Printable with customised prints and colours.

Dairy Packaging Films

Dairy Packaging Film is the LDPE along with other polymer blend which is processed by Multilayer Blown Film Extrusion. Polymer blends we choose to manufacture packaging films gives them toughness, flexibility, and relative transparency, lowest softening point, making it popular for use in applications where heat sealing is necessary. These films are available printed & non-printed, Natural & Opaque. Each of the three layers can have different polymers added to it, in order to meet the individual requirements of the customer with meeting the food grade requirements.

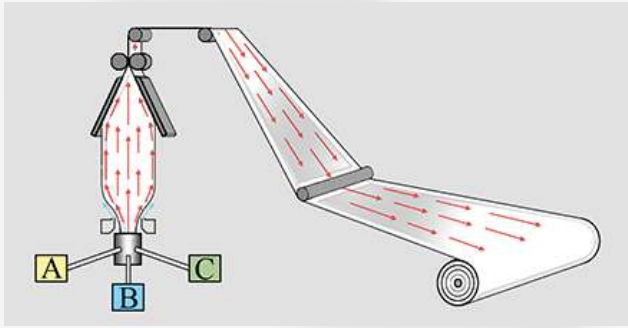
Product Details:

Types of Dairy Packaging Film	• Milk packaging • Soya Milk Packaging • Paneer Packaging • Cheese Packaging • Curd packaging • Ghee Packaging • Butter Milk Packaging
Usage / Application	• Dairy
Material Used	MLLDPE, LDPE
Capacity	200 ml to 5 Liters
Packaging Type	Rolls
Colour	As per Requirement
Pattern	Print and Non- Printed
Thickness	upto 185 Microns
Features	• Excellent Sealing Strength • Guaranteed, laboratory tested and proven material. • It is cost efficient compared to old technique of packing. • Durable, waterproof and hygienic to user. • Advanced technology compatible with all machines. • Highly optimised inks and non transferable inks. • Adds extra life to the product inside.



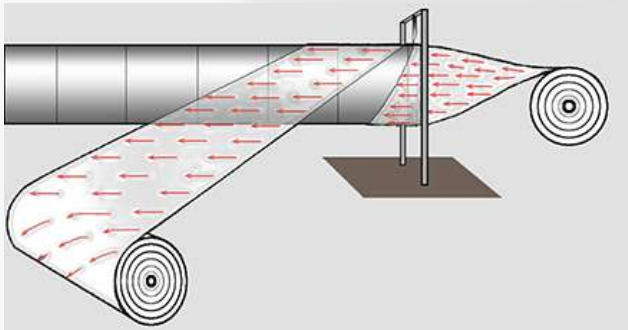
Spiral Laminated Films

Spiral Laminated Film is made of the incredibly strong and high performing, co-extruded film. Here is a look at the spiral laminated film process:



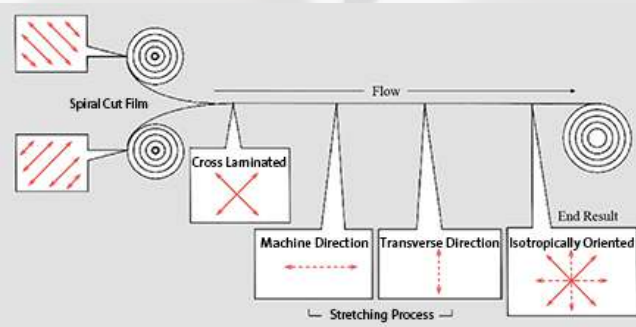
First Process:

1. PE film is extruded via the blown film process to form a tube. The tube is cooled and collapsed into a flat tube.
2. After the tube is flattened, it is fed into a multi stage orienter. During orientation, the film is stretched in the machine direction aligning the polyethylene molecules. The resulting film is very strong in the machine direction.
3. The oriented tube is then annealed and wound up. The annealing step removes stress in the film and controls shrinkage. The annealed film retains its high MD strength.



Second Process:

1. The next step of the process is spiral cutting. In this step, the flattened, oriented tube is unrolled, rotated and re-inflated to form a round tube.
2. As the film is fed forward and rotated, it is cut on a bias (around 45 degrees) and wound up. The spiral cut film's orientation is at 45 degrees to the machine direction.



Third Process:

1. Finished spiral cut rolls are mounted on corresponding spindles.
2. Films are fed through and laminated with an extruder with their orientation directions crossed at 90 degrees. The films are laminated together.
3. After lamination, film is surface treated for ink adhesion and graphic purposes. Finally, the film is wound on a core to estimated yardage.

Product Details:

Usage / Application	• Tags • Labels • High Strength tapes • Chemical Packaging • Water Proofing Membrane • Specialised Packaging • Engineering Goods • General Purpose Packaging or anything which needs extra performance with minimum thickness of films.
Material Used	MLLDPE, LDPE, HDPE
Packaging Type	Rolls
Colour	As per Requirement
Type	Printed and Non-Printed
Thickness	upto 200 Microns
Benefits	• High Strength and scalability • Easy Printable • Tear Resistance • Chemical Resistance • Puncture Resistance • Temperature Resistance • Thinner gauge without loosing performance

Technical Specification

S.No.	Test Specification	Units	75 Microns	97 Microns	135 Microns	170 Microns
1	Tensile Strength at Break	Kg/cm2	386	375	337	337
	Machine Direction					
2	Cross Direction	%	435	412	365	360
	Elongation at Break					
3	Machine Direction	GSM	250	325	400	700
	Cross Direction					
4	Dart Impack	GSM	1200	1500	2080	2880
	Tearing Test					
	Machine Direction	GSM	900	1200	1600	2400
	Cross Direction					

Test has been conducted as per IS:14611 standards

CORRUGATION DIVISION

JINDAL
— POLYWRAP —

Introduction

We are delighted to introduce ourselves as a prominent manufacturer of Corrugated Packaging. Our range of products includes 3/5 Ply Boards, Master Boxes, Partitions, Multicolour Boxes, Slip Sheet Palette, fitment, Die Cut Self Locked Cartons and other wide range of allied products. Our team of skilled professionals makes these products with the help of most advanced technology machineries. We source our raw material from from reliable vendors in the market. We offer our customers various shapes and sizes to meet their diverse requirements.

Advanced and Unmatched Capabilities

We have a state-of-the-art corrugator that operates at a high speed of 150 meters per minute and can produce single wall and double wall boxes with a multitude of flute profiles of A,B,C BC, AB, BB. We have also installed a floor-mounted conveyor system that efficiently handles the corrugated boards coming out of the corrugator. In addition, we have 2 to 3 color high-speed printer slotting machines that operate at high speed and come equipped with rotary die cutters, equipped with 3 hi-tech printing machines with a die cutter and automatic partition assembler machine.

Our fully automatic folder gluer/folder stitcher is capable of producing up to 20,000 of carton boxes per hour, and can deliver up to an impressive 6000 sheets per hour with its auto bundler. To efficiently handle paper reels, we have a forklift equipped with a paper roll clamp for efficient movement of the reels. We are well equipped with testing labs, modern technology and skilled labour which helps us to give smooth delivery experience to our customers with highest quality possible. In our production line we have wide range of most advanced machineries in India.



Advanced Machineries

We have established a benchmark in utilising cutting-edge machineries to produce tons of corrugated packaging daily, ensuring they meet all our client's needs seamlessly.

1. Seamless Metal Movement
2. N.C Slitter Scorer
3. Board Slotting Machine
4. Die Machines
5. Printing Machines
6. Partition Assembler Machine
7. Automatic Pasting and Stapling Machine and many others.

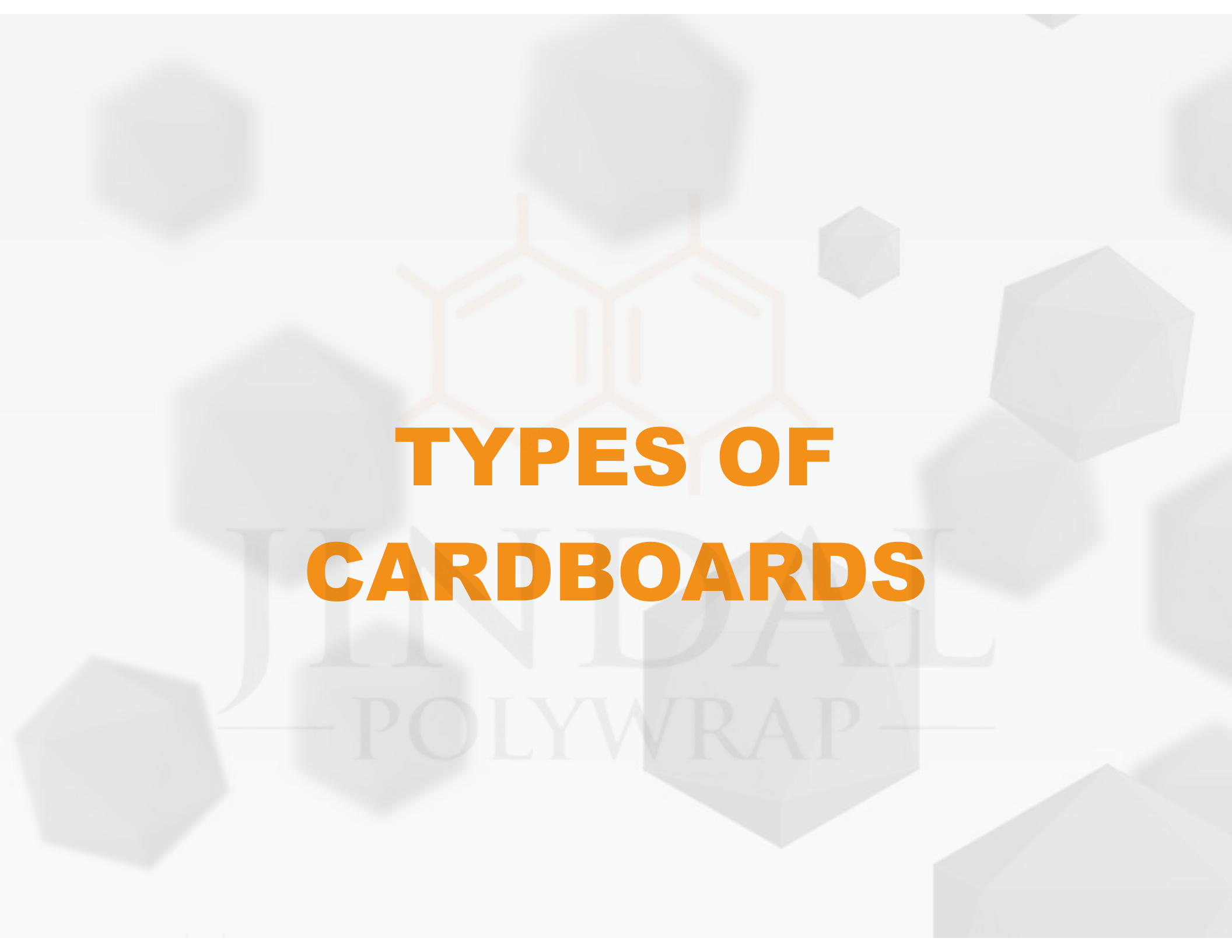


Customer Satisfaction

We have set up a fully equipped laboratory with the following equipments in order to uphold the highest standards of quality and to manufacture corrugated packaging that are globally accepted.

1. Box Compression Strength Tester
2. Crush Tester (to measure RCT, ECT, FCT)
3. Bursting Strength Tester
4. Glue Solid Content Tester
5. COBB Tester
6. GSM Tester
7. Moisture Tester



The background features a light gray field with various geometric shapes, including hexagons and cubes, some of which are 3D-rendered. A faint, orange-colored chemical structure, resembling a substituted benzene ring, is centered behind the text.

TYPES OF CARDBOARDS

JINDAL
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Board Styles



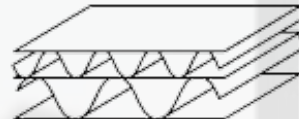
Single Face

Board consisting of one sheet of flutter paper stuck to one sheet of facing.



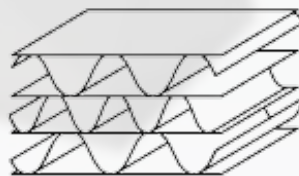
Single Wall
(or double face)

Board consisting of one sheet of flutter paper interposed between and glued to two facing.



Double Wall

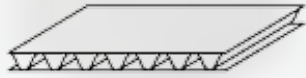
Board consisting of two sheet of flutter paper interposed between and stack to three facings.



Tripal Wall

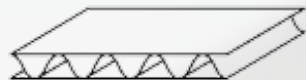
Board consisting of three sheet of flutter paper interposed between and glued to four facing.

Flute Styles



F Flute

The newest type in the packaging industry and is just over half the thickness of E-flute. It consists of the lowest finer content of all other flutes



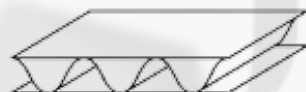
E Flute

A very thin flute and has about 290 flutes per meter. It offers excellent crush resistance and printability.



C Flute

Thicker than B-flute but thinner than A-flute. It is the most commonly used flute type. It consists of around 128 ± 10 flutes per meter.



B Flute

Thinner than A-type, but has good compression strength, compactness, printability and is cost effective. It has around 154 ± 10 flutes per meter.

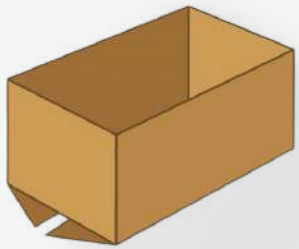


A Flute

The original flute and has the highest arch height with 110 ± 10 flutes per meter. It has excellent stiffness and short column crush resistance.

TYPES OF CORRUGATED BOXES





Half Slotted Containers (HSC)

A variation of the RSC, the Half Slotted Carton has only one set of flaps. The opposite side of the box is envisioned the use of the box turned over so that the flaps are on the top. The covered item is usually attached to a pallet or other type of surface that serves as a separate bottom.



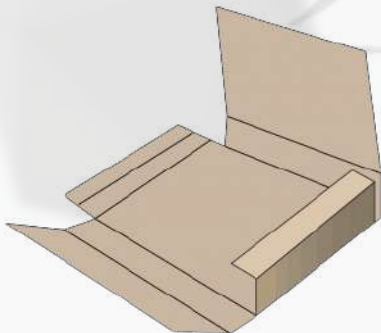
Regular Slotted Containers (RSC)

Also called shipping boxes, RSC's are the most commonly used boxes. They are usually kraft brown in colour, have four flaps on the top and bottom and side walls are sealed at one corner known as the "Manufacturer's Joint". This design is highly functional for most packing needs.



Full Overlap Slotted Container (FOL)

With Full Overlap Slotted Carton, all "length" flaps are also equal to the width of the box. The flaps actually fold over one another to provide added strength and protection to the top and bottom.



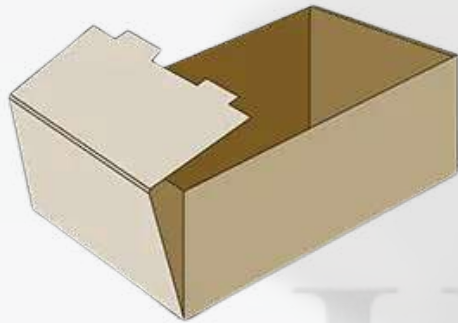
One Piece Folder with Air Cell / End Buffers

One-Piece Folders also come with inner end folds that help better protect the product inside from damaged corners and sides.



One Piece Folder (OPF)

Commonly called “Book fold” or “Book wraps” the One Piece Folder has a flat bottom with two short flaps forming the sides at each end and two longer, wider flaps that form the front, back and top of the box. The wider flaps either meet or overlap on the top, depending on the depth of the contents.



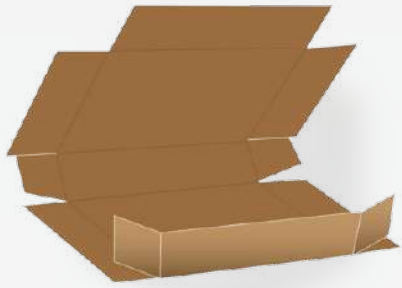
Roll End Tray or Tray with Self Locking Ends

Formed from a single piece of combined board the design features an unbroken, and several layers of corrugated in the end panels. Trays are not shipping containers, but they are frequently used as inner containers for parts, delicate produce, letter mail and other products, or as elements of display stands.



Locking Cover or Mailer Style Boxes (MSB)

A one-piece die-cut box that is assembled without tape, construction includes double layer protection on the sides and bottom of the box. Available in two popular style with a tuck-in top or with a locking cover also known as a “cherry lock” design. Mailer Style Boxes are exceptionally strong and can withstand the most rigorous treatment during shipments.



Five-Panel Folder (FPF)

A Five-Panel Folder actually resembles a shallow-depth box when assembled. It is a single piece box with an over lapping top and over lapping end panels. The functional design is also economical.



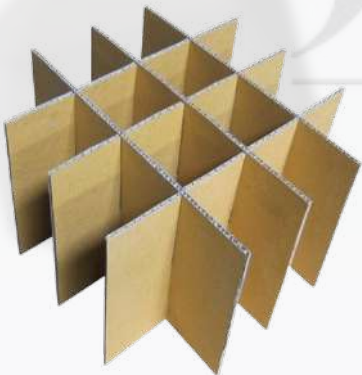
Snap Bottom Containers with RSC Top

Available in tuck-in top or RSC-style top flaps. Also refer to as an “auto bottom” box. The bottom of the box snaps into place without tape for quick assembly. Best suited for light weight products.



Full Telescope Design Carton (FTD)

A two-piece box with a separate lid that fits over a bottom tray,



Partitions

Partitions or divides provide a separate cell for each item in a box. They are used primarily for glassware and other fragile articles.

Core Strength of a Products

Customised recipes, their are literally hundreds of raw materials, each with their own characteristics. We can vary the combination of optimised raw material to achieve different goals. In short, we can understand and customised films according to need. This is ideal for customers who have unique requirements for unique application, and don't want an off the shelf film that only meets five out of ten specifications.

Our Values

- Our World revolves around our Customers
- Technical Competence
- Team Work
- Passion for Excellence
- Commitment
- Ethics

Our Motto

BETTER PRICE SAME QUALITY

SAME QUALITY BETTER PRICE

Associated Partners



ALL INDIA MANUFACTURERS ORGANISATION



CIPET सिंघेट



INDIAN CENTRE FOR PLASTIC ENVIRONMENT



PLASTINDIA FOUNDATION®

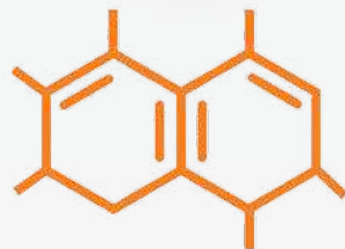


FCBM

The Apex Body OF India's Corrugated Packaging Industry
SINCE 1971

Technology Partners





JINDAL
— POLYWRAP —

Dedicated to Excellence

JINDAL POLYWRAP PVT. LTD.

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