

KHURANA

POLYTECH INDUSTRIES



MFRS. OF:

LD BAGS | STRETCH FILMS | HM BAGS | PET STRAP
PP STRAP | MULTI COLOUR PRINTED BAGS



www.khuranapolytech.com





SANCHIT KHURANA
Prop.

Company Profile

Founded : **Since 2011**

Business Type : **Manufacturers**

MISSION STATEMENT

At Khurana Polytech Industries, we are dedicated to advancing polymer technology to meet the highest industrial standards. Our mission is to innovate and deliver superior solutions that drive efficiency and excellence across various sectors.

VISION STATEMENT

To lead the global market in polymer innovations, setting benchmarks for quality, sustainability, and technological advancement."

QUALITY ASSURANCE

- **Certifications** : ZED Certified
- **Quality Control** : Comprehensive testing and quality assurance processes.

KEY RESPONSIBILITIES

- **Strategic Leadership** : Developing company vision and strategic direction.
- **Operations Management** : Overseeing daily operations and resource allocation.
- **Financial Oversight** : Managing budgets, financial performance, and reports.
- **Team Leadership** : Leading senior management and fostering a positive company culture.
- **Business Development** : Building partnerships and exploring new market opportunities.
- **Compliance** : Ensuring regulatory compliance and upholding ethical standards.

LDPE BAGS/ROLLS



HIGH STRENGTH «
WATER RESISTANT «
HIGH DURABLE «

Low-Density Polyethylene Resins are typically used in the creation of plastic bags for food packaging and in the manufacturing of utility bags

1. **THICKNESS:** Typically ranges microns (e.g., 50 μm to 100 μm) depending on application.
2. **STRUCTURE**
 - **Single-Walled or Multi-Walled:** Available in single or multi-walled configurations based on strength and application needs.
3. **CLOSURE OPTIONS**
 - **Open-Top:** For easy access and quick filling.
 - **Closure Types:** Optional features adhesive seals for secure closing.
 - **Gussets:** Optional side or bottom gussets for increased capacity and shape retention.
4. **DIMENSIONS**
 - **Custom Sizes:** Available upon request to meet specific needs.
 - **Capacity:** Variable range on bag dimensions.
5. **PHYSICAL PROPERTIES**
 - **Strength:** High tensile strength and impact resistance.
 - **Transparency:** Available in clear or opaque options, with varying levels of clarity.
 - **Moisture Resistance:** Impermeable to moisture, making it suitable for protecting contents from dampness.
6. **ADDITIONAL FEATURES**
 - **Print Options:** Customizable with printed logos, branding, and information using rotogravure printing techniques.
7. **APPLICATIONS**
 - **Retail:** Shopping bags, product packaging.
 - **Industrial:** Packaging for parts, protective covers.
 - **Medical:** Disposable covers, protective bags.

MULTICOLOUR PRINTED BAGS/ROLLS



LDPE (Low-Density Polyethylene) multi-colour printed bags are commonly used for packaging, retail, promotional, and e-commerce purposes due to their durability, flexibility, and cost-effectiveness. These bags can be custom printed with vibrant, multi-colour designs to enhance brand visibility and attract customers. Below are the key specifications and options when considering LDPE multi-colour printed bags:

1. MATERIAL

- **Type :** LDPE (Low-Density Polyethylene) is a lightweight, flexible plastic material known for its toughness and moisture resistance. It's ideal for making bags that need to handle light to moderate weights and protect the contents from dust, dirt, and water.
- **Thickness:** LDPE bags are typically available in a range of thicknesses measured in microns (μm), with the most common range being 30 to 100 microns (0.03mm to 0.1mm). For lightweight retail bags, a 40-60 micron thickness is common. Heavier-duty bags may use a thickness of 80-100 microns.
- **Finish:** LDPE bags can be manufactured with a glossy or matte finish, depending on the desired look. Glossy finishes are more commonly used for retail, while matte finishes may be preferred for more subtle or high-end appearances.

2. PRINTING

- **Gravure Printing:** This is another option for high-quality printing, especially for large volumes, but it requires high initial setup costs and is more suited for longer runs.
- **Full-Colour (CMYK):** Flexo and gravure printing techniques allow full-colour prints, where designs can use a wide spectrum of colours to create intricate patterns, logos, or images.
- **Pantone Matching:** If exact colour reproduction is critical, you can specify Pantone colours for consistency across production runs.
- **Print Area:** LDPE bags can be printed on the front, back, or both sides, with coverage extending up to the edges of the bag. The print area size will depend on the bag's dimensions and the number of colours used.
- **Print Quality:** The print resolution will vary depending on the printing method.

3. BAG TYPES & SIZES

LDPE bags can be made in various styles to suit different applications:

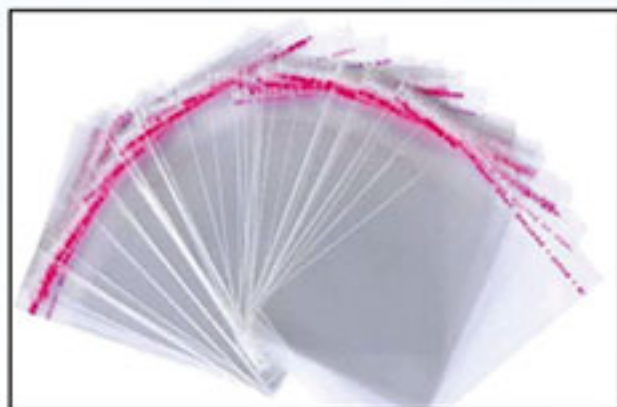
- **Custom Sizes:** LDPE bags can be custom-sized to suit specific packaging needs.
- **Ventilation Holes:** For items that require air circulation (such as fresh produce), bags may feature small perforations or holes.

4. CUSTOMIZATION OPTIONS

- **Logo & Branding:** LDPE bags are commonly used for branding and marketing purposes, with logos, slogans, and artwork printed in multiple colours.
- **Custom Prints:** You can create intricate designs, graphics, or even full-colour artwork on LDPE bags, providing great visual appeal for your brand.
- **Spot UV :** Special gloss treatment can be added to logos or designs for a shiny, eye-catching effect.

5. PRODUCTION & LEAD TIME

- **Minimum Order Quantities (MOQ):** Custom LDPE printed bags typically require a minimum order of 500 to 1,000 units, depending on the bag type and printer.



BOPP (Biaxially Oriented Polypropylene) bags are commonly used for packaging due to durability and clarity. Here are some key specification and features of BOPP bags :

1. MATERIAL

- **Type:** Biaxially Oriented Polypropylene (BOPP)
- **Thickness:** Typically range from 20 to 50 microns (0.02 to 0.05mm), but can vary based on application.

2. STRENGTH AND DURABILITY

- **Tensile Strength :** High tensile strength, making them resistant to tearing and punching.
- **Impact Resistant:** Good impact resistance due to the operation process.

3. CLARITY

- **Transparency :** BOPP bags are known for their excellent clarity and gloss, which enhances product visibility and presentation.

4. PRINTING

- **Printability :** BOPP bags can easily printed with high resolution graphics, allowing for custom design and branding.
- **Type of Printing:** Flexographic and rotogravure printing methods are commonly used.

5. BARRIER PROPERTIES

- **Moisture Resistance :** Provide good moisture barrier properties, helping to keep products dry.
- **Chemical Resistance :** Offers resistance to a range of chemicals, though not as high as some other materials.

6. SEALING

- **Heat Sealing :** BOPP bags can be sealed using heat, which provides a strong and secure closure.

7. APPLICATIONS

- **Food Packaging :** Often used to packaging snacks, cereals and other food items.
- **Non Food Items :** Also used for packaging non food items like clothing, pharmaceuticals and promotional materials.

8. SIZE AND SHAPES

- **Custom Size :** Available in a wide range of sizes and can be customized based on the packaging needs.
- **Shapes :** Typically flat or gusseted (with expandable sides) but can also be made into more complex shapes.

9. COST

- **Price :** Generally cost-effectiv compared to others high performance materials, especially in high volume production.

STRETCH FILM

Plain & Multicolored



HIGHLY STRETCHABLE «
PERFECT PACKING «
PURE VIRGIN «

1. FILM PROPERTIES

- **Thickness:** Typically ranges from 15 microns to 150 microns.
- **Width:** Commonly available in widths from 75 mm to 1000 mm.
- **Length:** Roll lengths vary from 100 meters to 3000 meters or more, depending on the thickness and width of the film.
- **Gauge:** The thickness of the film, often specified in microns or mils (1 mil = 25.4 microns).

2. MECHANICAL PROPERTIES

- **Tensile Strength:** Typically ranges from 2500 to 4000 psi, depending on the film grade and thickness.
- **Elongation:** Generally, ranges from 200% to 500%, allowing for stretching and wrapping around irregular shapes.
- **Tear Resistance:** Designed to withstand typical handling and transportation stresses.

3. PERFORMANCE CHARACTERISTICS

- **Stretchability:** High stretch ratio, typically up to 300% to 400% of the film's original length, providing tight and secure wrapping.
- **Transparency:** Available in clear or tinted options to allow for visibility of wrapped products.

4. TYPES

- **Hand Stretch Film:** Designed for manual application with a hand-held dispenser. Typically thinner and less strong compared to machine stretch film.
- **Machine Stretch Film:** Engineered for use with automatic or semi-automatic stretch wrapping machines. Usually thicker and stronger for high-volume applications.
- **Pre-Stretched Film:** Pre-stretched during manufacturing for reduced force requirement and increased load holding strength.

5. SPECIAL FEATURES

- **UV Protection:** UV-stabilized options available for extended outdoor storage and protection against sunlight.
- **Anti-Slip:** Film with anti-slip additives to prevent loads from shifting during transportation.

6. APPLICATIONS

- **Industrial:** Securing palletized goods, stabilizing loads, and protecting products during shipping and storage.
- **Retail:** Wrapping items for display, bundling products, and securing goods for transport.

AIR BUBBLE ROLLS



Air bubble rolls, often referred to as bubble wrap, are widely used in industrial applications for packaging and protective purposes. Here are the key specifications and considerations for air bubble rolls in industrial use:

1. MATERIAL

- **Type:** Typically made from low-density polyethylene (LDPE).
- **Properties:** It should be flexible, lightweight, and resistant to moisture and chemicals.

2. BUBBLE SIZE

- **Diameter:** Common bubble sizes range from 6 mm to 25 mm.
- **Type:** Can be large (standard) or small (mini) bubbles. Large bubbles offer better cushioning, while small bubbles provide more surface coverage and flexibility.

3. ROLL DIMENSIONS

- **Width:** Typically ranges from 300 mm to 1500 mm (12 inches to 60 inches). Custom widths are available based on specific needs.
- **Length:** Rolls can vary from 100 meters to 1500 meters or more. The length often depends on the intended use and storage space.

4. BUBBLE SPACING

- **Layout:** Bubbles can be arranged in single or double layers. Double-layered rolls provide additional protection.
- **Spacing:** The distance between bubbles affects cushioning performance.

5. THICKNESS

- **Material Thickness:** Ranges from 30 microns to 150 microns. Thicker rolls offer better protection.
- **Overall Thickness:** Includes bubble height plus the thickness of the plastic film. This typically ranges from 2 mm to 5 mm.

6. PERFORATION

- **Type:** Perforated rolls come with tear lines for easy separation. Perforation is often spaced at intervals like every 30 cm or 60 cm.
- **Frequency:** Custom perforation intervals can be specified based on user requirements.

7. RECYCLABILITY

- **Eco-Friendly Options:** Some bubble wraps are made from recycled materials and are recyclable. Look for products with environmental certifications.

8. STATIC CONTROL

- **Anti-Static:** For electronic components, anti-static or ESD (Electrostatic Discharge) bubble wraps are essential to prevent damage.

9. CUSTOMIZATION

- **Printing:** Custom printing can be applied for branding or handling instructions.
- **Colors:** Standard is clear, but colors like blue or black may be used for specific applications or visibility.

10. STRENGTH AND DURABILITY

- **Burst Strength:** Ensure the roll has a sufficient burst strength to withstand shipping and handling stresses.
- **Impact Resistance:** The roll should offer adequate protection based on the level of impact expected during transit.

11. HANDLING AND STORAGE

- **Storage Conditions:** Bubble wrap should be stored in a cool, dry place to prevent deterioration.
- **Handling:** Proper handling practices should be followed to maintain the integrity of the material.

12. COMPLIANCE

- **Regulations:** Ensure the bubble wrap meets industry standards and regulations relevant to your location and industry.

When selecting air bubble rolls for industrial use, it's crucial to match the specifications with the type of products being protected and the conditions they will encounter during shipping and storage.

AUTOMATIC BAND SEALER MACHINE



An Automatic Band Sealer is used for sealing plastic bags or pouches in a fully automated process, often found in high-volume production environments. Here's a comprehensive overview of the specifications for an automatic band sealer.

1. GENERAL DESCRIPTION

- **Type:** Automatic band sealer
- **Application:** Sealing of plastic bags, pouches, and flexible packaging materials in a continuous operation
- **Operation:** Fully automated with integrated controls for seamless sealing

2. SEALING MECHANISM

Sealing Method: Heat-sealing using continuous band or conveyor belts

Temperature Control: Adjustable temperature settings with precise digital or analog control, typically ranging from 0°C to 300°C.

Sealing Speed: Variable speed control, generally from 0-12 meters/minute adjustable based on production requirements.

3. DIMENSIONS AND CAPACITY

Sealing Width: Typically, from 6 mm to 15 mm, adjustable to accommodate different bag widths.

4. CONSTRUCTION

Frame Material: Typically, stainless steel or aluminium for durability and easy maintenance.

Conveyor Belt Material: High-temperature resistant material, such as Teflon-coated or silicone belts.

Cooling System: Integrated cooling system to solidify the seal immediately after heating, ensuring a clean, consistent seal.

5. CONTROLS AND AUTOMATION

Control Panel: User-friendly interface with digital display for temperature, speed, and settings.

Automation Features: Automatic bag feeding, sealing, and ejection processes.

Sensors: Equipped with sensors for bag detection, alignment, and sealing, ensuring accurate and efficient operation.

6. POWER REQUIREMENTS

Voltage: Typically, 220V, 50/60Hz, with options for different voltages depending on regional standards.

7. FEATURES

Adjustable Conveyor: Conveyor height and speed are adjustable to fit various bag sizes and production rates.

Safety Features: Includes emergency stop buttons, safety guards, and overload protection to ensure operator safety.

8. APPLICATIONS

Industries: Widely used in food and beverage, pharmaceuticals, chemicals, cosmetics, and other packaging sectors.

Bag Types: Suitable for various types of flexible packaging materials, including polyethylene (PE), polypropylene (PP), and laminated pouches.

SEMI AUTOMATIC BOX STRAPPING MACHINE



A Semi-Automatic Box Strapping Machine is used for applying plastic straps to packages and boxes, typically in moderate to high-volume packaging operations. Here's a detailed specification for a semi-automatic box strapping machine

1. GENERAL DESCRIPTION

- **Application:** Strapping of packages, cartons, and boxes with polypropylene (PP) or polyester (PET) straps.
- **Operation:** Requires manual placement of the strap around the package, with automatic tensioning and sealing.

2. STRAPPING MATERIAL

- **Strap Type:** Polypropylene (PP) or polyester (PET) straps
- **Strap Width:** Typically ranges from 5 mm to 15 mm, adjustable depending on the model.
- **Strap Thickness:** Generally, from 0.5 mm to 1.2 mm.

3. DIMENSIONS AND CAPACITY

- **Strapping Speed:** Typically ranges from 2 to 4 straps per minute, depending on the model and strap width.

4. CONSTRUCTION

- **Frame Material:** Sturdy metal construction, often steel or aluminium, with corrosion-resistant coatings.
- **Feed Mechanism:** Equipped with a roller or conveyor system to feed the package through the strapping mechanism.
- **Strapping Head:** Includes automatic tensioning and sealing components.

5. CONTROLS AND OPERATION

- **Control Panel:** User-friendly interface with buttons for start/stop, strap tension adjustment and cycle settings.
- **Manual Operation:** Requires operator to position the strap and initiate the strapping cycle; the machine handles tensioning and sealing.
- **Adjustment Settings:** Adjustable settings for strap tension, sealing time, and strap length.

6. POWER REQUIREMENTS

- **Voltage:** Typically, 220V, 50/60Hz; options for different voltages based on regional standards.
- **Power Consumption:** Usually ranges from 0.5 kW to 1.5 kW, depending on machine specifications.

7. FEATURES

- **Tension Control:** Adjustable tension settings to secure the strap without damaging the package.
- **Sealing Mechanism:** Heat-seal or friction-seal technology for secure strap closure.
- **Error Detection:** Includes sensors for detecting strap jams, misfeeds, or incorrect strap lengths.

8. APPLICATIONS

- **Industries:** Commonly used in packaging for food and beverage, pharmaceuticals, logistics, manufacturing, and retail.
- **Package Types:** Suitable for various box sizes and types, including corrugated cartons and flat packages.

PP BOX STRAP



The strongest plastic strap often used for heavy loads that require a high tension during handling, transport and storage. Made from lightweight plastic material and is used for fixing loads to pallets or bundling items for shipping.

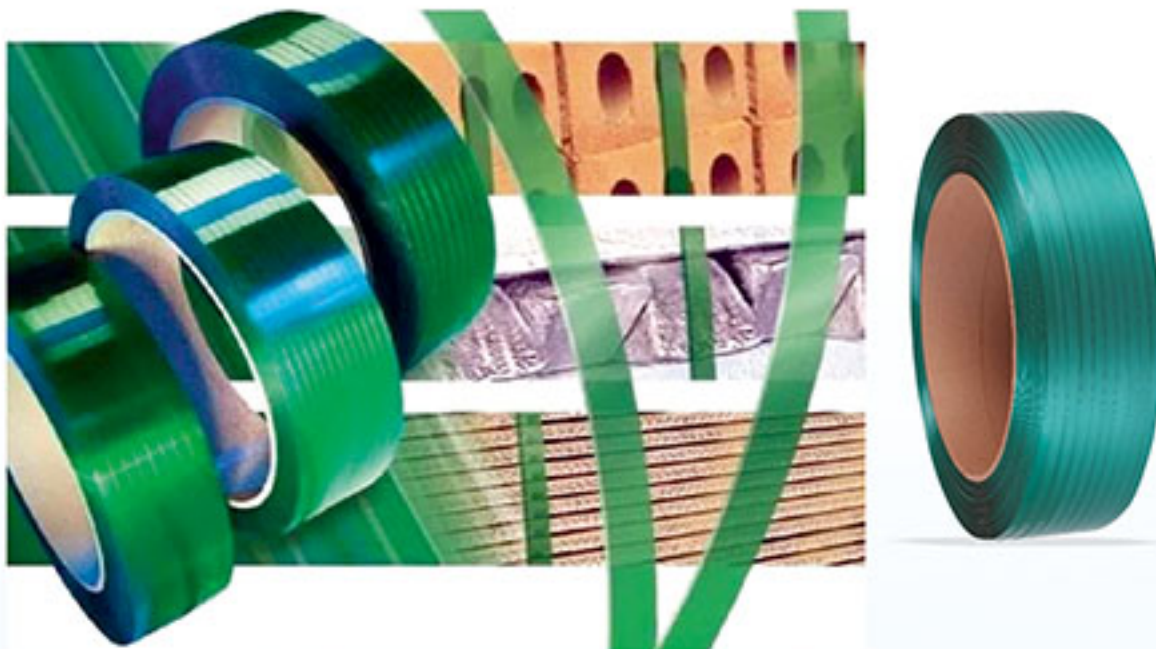
1. MATERIAL

- **Base Resin:** Polypropylene (PP)
- **Additives:** May include UV stabilizers, anti-slip agents, and colorants, depending on the specific application.

2. PERFORMANCE CHARACTERISTICS

- **Clarity:** Available in clear or coloured options, with varying degrees of opacity.
- **Flexibility:** Good flexibility for easy handling and application.
- **Durability:** Resistant to abrasion and impact, designed to withstand typical handling and transportation stresses.

PET STRAP ROLLS



PET (Polyethylene Terephthalate) strap rolls are widely used in industrial settings for packaging and securing goods. Here are the key specifications and features to consider:

1. MATERIAL PROPERTIES

- **Material :** Polyethylene Terephthalate (PET)
- **Strength :** High tensile strength, generally ranging from 1,000 to 2,500 MPa
- **Elongation :** Typically 10-20% elongation at break.
- **Temperature Resistance :** Can withstand temperatures from -40°C to 60°C

2. DIMENSIONS

- **Width :** Commonly ranges from 9 mm to 19 mm, but can vary based on application
- **Thickness :** Typically ranges from 0.5 mm to 1.5 mm
- **Roll Length :** Can vary significantly, from 1,000 meters to 5,000 meters or more, depending on the application

3. STRENGTH AND DURABILITY

- **Breaking Strength :** Usually between 200 kg to 1,200 kg, depending on the width and thickness of the strap
- **Impact Resistance :** Good impact resistance compared to other materials like polypropylene
- **UV Resistance :** Can be treated for UV resistance to prevent degradation from sunlight

EDGE PROTECTOR



1. MATERIAL

- **Card Board:** Common for lightweight items, cost-effective and recyclable.

2. DIMENSIONS

- **Size:** The edge protector should match the dimensions of the product's edges. This includes the height, width and thickness.

3. SHAPE

L-Shaped: Commonly used for rectangular or square products.

4. STRENGTH AND LOAD-BEARING CAPACITY

Compression Strength, Impact Resistance.

HDPE BAGS



**CUSTOM SIZE &
THICKNESS**

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