











OUR PACIACONS

Innovative Plastics Driving Excellence Across Industries

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ABOUT IMPACT RANK

Impact Rank–founded in 1992, has grown from a modest plastics manufacturer into a pioneering leader in the sustainable materials industry.

Our journey began with a commitment to quality and innovation, producing highgrade polyethylene products for diverse sectors. A pivotal technological overhaul five years ago catalyzed our expansion into the field of biodegradable, plant-based plastics.

Today, we stand as a leading bioplastics company in Asia, dedicated to delivering top-tier plant-based solutions for brands and consumers.

Our aim is to significantly reduce plastic pollution in our oceans and across the planet through innovative, eco-friendly products.



HIGH DENSITY POLYETHYLENE (HDPE)

HDPE Film are very strong and durable. It can also be UV Resistant and chemical resistant. This versatile plastic can be used to produce furnitures, equipments and consumer products.

LOW DENSITY POLYETHYLENE (LDPE)

LDPE may be less dense than HDPE but carries benefits such as being water resistant, electrically insulating, transparent and has heat sealing properties.

VOLATILE CORROSION INHIBITOR (VCI)

This revolutionary material consists of VCI molecules which releases vapours on the metal surface, protecting metal machineries and equipements from corrosion and rust.





BIODEGRADABLE PLASTIC

Our patented technology allows us to blend NuPlastiQ with traditional plastics, bioplastics, and recycled plastics, offering unparalleled versatility. Using less virgin plastic reduces fossil fuel consumption, lowers pollution, and mitigates long-term environmental impact.



POST-CONSUMER RESIN (PCR)

PCR (Post-Consumer Recycled) technology transforms used plastics into high-quality resins for reuse in various industries, such as heatshrinkable films. At Impact Rank, we ensure these resins retain their original quality, reducing waste and promoting sustainability without requiring new molds or machines.



ANTI-STATIC PLASTICS

Anti-static plastic prevents static electricitv buildup, reducina dust attraction and safeguarding sensitive components from electrostatic discharge (ESD). Essential in electronics packaging, manufacturing, and cleanroom environments, it ensures optimal performance. At Impact Rank, we deliver high-guality anti-static solutions for enhanced protection and functionality.





FIRE RETARDANT PLASTICS

retardant plastics are engineered Fire resist ignition and slow flame to spread under extreme heat, enhancing safety across industries. Impact Rank's combine flame solutions resistance, heat stability, & smoke reduction to deliver reliable, high-performance materials for critical applications.

CONDUCTIVE PLASTICS

Conductive plastics are advanced materials that combine the flexibility of traditional plastics with electrical conductivity, providing lightweight, sustainable alternatives to metals. Impact Rank offers versatile, highperformance solutions to meet diverse industrial needs.

OUR HIGHLY CONTROLLED FACILITY

Our Controlled Environment area provides a dust-free space to serve our clients in precision industries, such as Semiconductor, Hard Disk Drives and F&B. Jumpsuits, masks and gloves are required at all times and machines undergo thorough cleaning and maintenance daily.

EXTRUSION DEPARTMENT

Blown film extrusion is the primary process of converting polymer granules into films or tubing through a melting and blowing process. Precise temperature and speed are controlled through equipment and experienced technicians.

OUR HIGHLY CONTROLLED FACILITY



CUT & SEAL DEPARTMENT

The sealing machines then convert the tubing into bags according to customer's specifications.

PRINTING DEPARTMENT

Leading edge technology and machinery optimize production to meet extensive packaging requirements.

FOR AEROSPACE

In the aerospace industry, ensuring the safe handling and storage of sensitive and highvalue components is crucial. LDPE (Low-Density Polyethylene) and VCI (Volatile Corrosion Inhibitor) films and bags are essential packaging solutions that offer protection against various hazards.



COMPONENTS PACKAGING

LDPE and VCI bags are used to package individual aerospace components, such as turbine blades, bearings, and other metal parts, protecting them from contaminants and corrosion.

PROTECTIVE COVERINGS

LDPE films are used to cover large equipment and machinery, providing a barrier against dust, moisture and mechanical damage.





LONG-TERM STORAGE

VCI bags and films are ideal for longterm storage of metal parts, preventing corrosion over extended periods.

PALLET WRAPPING

These films are used to wrap pallets containing multiple components, ensuring stability & protection during transportation and storage.

Range of Thickness & Sizes	
Thickness	0.013mm to 0.3mm
Width	100mm to 3000mm
Length	100mm to 7000mm

Further customization	
Low-density Polyethylene (LDPE)	Ensures safe packaging for sensitive components during transport & storage.
Volatile Corrosion Inhibitor (VCI)	Long-term corrosion protection for aerospace components.
Plant-Based Packaging	Offer biodegradable & eco-friendly options while maintaining product protection.

FOR AIR & SEA CARGO

Heavy-duty LDPE sheets are highly durable, offering resistance to tears, punctures, impacts, water, and many chemicals, making them ideal for protecting goods in demanding environments. They provide excellent moisture protection and are crucial for preventing damage from humidity or water exposure. Despite their strength, these sheets remain flexible and can be easily molded or cut to fit various cargo shapes and sizes, ensuring comprehensive protection.



WRAPPING & BUNDLING

These sheets are used to wrap and bundle large or irregularly shaped items, providing an extra layer of protection against mechanical damage.

GROUND PROTECTION

LDPE sheets can be laid on the ground in warehouses or loading areas to protect goods from direct contact with the floor, preventing contamination and damage.





CONTAINER LINING

Heavy-duty sheets are used to line the interiors of shipping containers, providing a protective barrier that shields goods from the elements and potential container damage.

PALLET LINERS & COVERS

Heavy-duty LDPE sheets are used as liners & covers for pallets. They protect goods from dirt, moisture, and damage during handling & transport.

Range of Thickness & Sizes	
Thickness	0.013mm to 0.3mm
Width	100mm to 3000mm
Length	100mm to 7000mm

Further customization	
Volatile Corrosion Inhibitor (VCI)	Advanced corrosion protection for components during transit.
UV Protection	Enhanced resistance to UV rays for prolonged outdoor exposure of packaging safety.
Fire Retardant	Specialized fire-resistant materials to meet safety standards.
Plant-Based Packaging	Eco-friendly, durable solutions aligned with sustainability.

FOR FOOD & BEVERAGE

Our LDPE and HDPE films protect against contaminants, ensuring food safety while offering flexibility and strength for various packaging needs. They provide excellent moisture resistance to prevent spoilage. We offer sustainable, 100% plant-based biodegradable options and hybrid bags that reduce greenhouse gas emissions. Our HACCP certification guarantees compliance with strict hygiene standards for direct food contact.



PRIMARY FOOD PACKAGING

LDPE, and HDPE bags are used to package fresh produce, bakery items, dairy products, and other food items, protecting them from contaminants and maintaining their freshness.

SECONDARY PACKAGING

These films are used to wrap and secure bulk quantities of packaged food products, ensuring stability and protection during transportation and storage.





T-SHIRT/SINGLET BAGS

LDPE, HDPE, and biodegradable bags can be manufactured into t-shirt/singlet bags of various thicknesses and sizes, suitable for retail use. These bags can feature 4-color printing, enhancing branding and visibility.

PROTECTIVE COVERINGS

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LDPE, HDPE, & biodegradable films are used to cover large equipment and machinery in food processing facilities, providing a barrier against dust, moisture, & mechanical damage.

Range of Thickness & Sizes	
Thickness	0.013mm to 0.3mm
Width	100mm to 3000mm
Length	100mm to 7000mm

Further customization	
Plant-based Packaging	Sustainable solutions for food packaging.



FOR SEMICONDUCTOR & ELECTRONICS

LDPE and HDPE films protect electronic components from dust, moisture, and static damage. They feature ESD protection, with conductive options for extra safety, and amide silicone-free properties to avoid contamination. LDPE offers flexibility, while HDPE provides strength for various packaging needs.

COMPONENT PACKAGING

Anti-static, conductive, and amide silicone-free LDPE and HDPE bags are used to package individual semiconductor components, PCBs (Printed Circuit Boards), and other electronic parts, providing protection from contaminants, static discharge, and chemical interference.





PALLET COVER

Both LDPE & HDPE films are used to wrap pallet loads of electronic components, providing stability & protection during transportation, while also preventing static buildup & dissipating static charges.

Range of Thickness & Sizes	
Thickness	0.013mm to 0.3mm
Width	100mm to 3000mm
Length	100mm to 7000mm

Further customization	
Lamination Film (Lamination/ Reverse Printing)	Protects components, enhances durability, & improves appearance.
General Packaging	Ensures protection, extends shelf life, & meets industry standards.

FOR AGRICULTURE

We offer sustainable packaging and materials that protect agricultural products, improve shelf life, and reduce waste, supporting the shift towards greener farming practices. Our solutions help farmers and producers maintain product quality while promoting environmental stewardship.



FERTILISERS

Plastic bags provide protection against moisture, which is crucial for keeping fertilizers in dry, free-flowing form. This prevents clumping and degradation, ensuring product effectiveness when applied.

MULCH FILMS

LDPE and biodegradable plastic mulch films are spread over soil to retain moisture, suppress weed growth, regulate soil temperature, and improve crop yield. These films also reduce the need for chemical herbicides, contributing to more sustainable farming practices.





SEALED BAGS

These plastic bags protect crops from moisture, contamination, pests, and physical damage during storage and transportation. They help maintain the quality of perishable goods like fruits, vegetables, and grains.



Range of Thickness & Sizes	
Thickness	0.013mm to 0.3mm
Width	100mm to 3000mm
Length	100mm to 7000mm

Further customization	
UV Protection	Shields crops & packaging from harmful UV rays, improving product longevity.
Plant-based Packaging	Provides eco-friendly, sustainable packaging solutions, reducing environmental impact.

FOR CONSTRUCTION

We supply high-performance, sustainable building materials that enhance the durability and energy efficiency of construction projects, supporting green building initiatives. Our materials contribute to the creation of resilient, eco-friendly structures that meet modern construction standards.

PLASTIC LINERS FOR BUILDING FOUNDATIONS

Plastic liners are used to waterproof foundation walls, preventing water from seeping into basements or crawl spaces. This ensures the structural integrity of the foundation and reduces the risk of mold growth or concrete deterioration.

PLASTIC COVERING

Items such as concrete slabs, tiles and other renovation items have to resist environmental factors like rain, sun, and wind, making buildings more resilient which is why plastic coverings are important to protect them from environmental factors.

PLASTIC PROTECTIVE SHEETS

Plastic drop cloths made from LDPE (Low-Density Polyethylene) are widely used to protect floors, furniture, and other surfaces from paint drips and spills. These sheets are lightweight, waterproof, and durable, making them ideal for covering large areas during painting.

Range of Thickness & Sizes	
Thickness	0.013mm to 0.3mm
Width	100mm to 3000mm
Length	100mm to 7000mm

Further customization	
UV Protection	Prevents degradation of materials exposed to sunlight.
Fire Retardant	Reducing flammability of materials, protecting structures.
Volatile Corrosion Inhibitor (VCI)	Protects metal components from corrosion during storage.
Plant-based Packaging	Provides sustainable packaging, reducing environmental impact in construction.

FOR FURNITURE

We provide durable & sustainable materials for furniture manufacturing, offering aesthetic & functional benefits while reducing reliance on traditional plastics. Our materials are designed to be long-lasting, versatile, and environmentally friendly, meeting the demands of modern furniture design.

IMPACT RESISTANCE

Plastic wrapping provides a protective barrier that shields furniture from scratches, dents, and abrasions during transportation. This is especially important for delicate surfaces like polished wood, glass, or leather upholstery.

WATER RESISTANT

Polyethylene (PE) materials are highly water-resistant, making them ideal for protecting furniture from moisture, humidity, and spills. This ensures the preservation of wooden surfaces, fabrics, and delicate finishes, particularly during long-term storage or transportation. Their durability ensures reliable performance even in challenging conditions.

DUST PROTECTION

Plastic wraps prevent dust, dirt, & debris from settling on furniture during storage or transportation. This helps keep the furniture clean & ready for use upon delivery, reducing the need for additional cleaning or polishing.

Range of Thickness & Sizes	
Thickness	0.013mm to 0.3mm
Width	100mm to 3000mm
Length	100mm to 7000mm

Further customization	
High-density polyethylene (HDPE)	Provides durability, weather resistance, & lightweight solutions for furniture components.
Fire Retardant	Enhances fire safety of furniture, ensuring compliance with safety regulations.
Plant-based Packaging	Provides eco-friendly packaging, supporting sustainable practices.

FOR HEALTHCARE

Plastics are crucial in the biomedical industry, serving a wide range of applications that enhance medical devices, packaging, & patient care. Their unique properties, such as sterility & biocompatibility make them indispensable in various medical contexts.

WASTE BAGS

Biomedical waste bags are typically made from strong plastic materials like polyethylene or polypropylene, which can withstand the weight and sharpness of waste items, preventing leaks and tears. They are colourcoded to facilitate proper sorting and disposal, making it easier for healthcare facilities to manage waste effectively.

COVERINGS FOR SURGICAL EQUIPMENT

Plastic coverings for surgical equipment (such as drapes, instrument covers, and sterile wraps) create a barrier against contaminants, ensuring that tools and surfaces remain sterile until they are needed. They are designed for single-use, minimizing the risk of cross-contamination and infection. They are made from materials like polypropylene or polyethylene, which are lightweight and easy to handle.

BIN/HAMPER LINERS

Plastic bin liners, made from HDPE or LDPE, are strong and tear-resistant, handling heavy laundry loads without ripping. They protect bins from moisture and spills, reducing cleaning needs, and allow easy removal for direct transfer to the washing machine.

Range of Thickness & Sizes	
Thickness	0.013mm to 0.3mm
Width	100mm to 3000mm
Length	100mm to 7000mm

Further customization	
High-density Polyethylene	Offers durability, chemical resistance, & hygienic storage for medical containers & equipment.
Low-density Polyethylene	Provides flexibility and moisture resistance, ideal for medical packaging & protective covers.
Plant-based Packaging	Eco-friendly solutions, aligning with sustainable healthcare initiatives.

FOR LAUNDROMAT

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Plastics play a significant role in the laundromat industry, contributing to efficiency, convenience, and hygiene in various ways.

CLOTHES

Plastic laundry bags, made from polyethylene, are tear-resistant & can hold heavy loads. They protect clothes from moisture and dirt during transport, keeping them clean & dry for trips to laundromats.

Range of Thickness & Sizes	
Thickness	0.013mm to 0.3mm
Width	100mm to 3000mm
Length	100mm to 7000mm

Further customization	
Polyethylene (PE)	Durable, water-resistant, & flexible for laundry bags & packaging.

FOR AUTOMOTIVE

Plastics are essential in the automotive industry, offering lightweight, durable solutions for components like dashboards, bumpers, and headlamps, improving efficiency and sustainability.

COMPONENT PACKAGING

Sustainable plant-based packaging for automotive headlamps and other delicate components. It offers a recyclable, eco-friendly alternative to traditional plastic packaging, reducing environmental impact while providing superior protection during storage and shipping.

IMPACT RESISTANCE

Lightweight and durable plastic designed for automotive dashboards, offering flexibility and excellent impact resistance. It provides a cost-effective, long-lasting solution for dashboard components, helping to reduce overall vehicle weight and improve fuel efficiency.

LONG-TERM STORAGE

Plastic components treated with Volatile Corrosion Inhibitor (VCI) to protect automotive bumpers and parts from corrosion during storage and transit. VCI technology shields metal parts from rust, extending the lifespan of bumpers and other exposed components.

Range of Thickness & Sizes	
Thickness	0.013mm to 0.3mm
Width	100mm to 3000mm
Length	100mm to 7000mm

Further customization	
Low-density polyethylene (LDPE)	Flexible & protective for wiring & component packaging.
Volatile Corrosion Inhibitor (VCI)	Prevents metal corrosion during storage and transport.
Plant-based Packaging	Eco-friendly options supporting sustainability goals.

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