



Polyreflex™



# POLYREFLEX

**Expert in Engineering Plastic  
Sheets & Rod**

**Low Temperature & High-Impact  
Resistance and Self-Lubricating  
Performance**



**POLYREFLEX HI-TECH CO., LTD.**

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### Company Profile

Polyreflex is a large manufacturing enterprise specializing in the production of thermoplastic sheets and products that made from materials such as PP, PE, UHMWPE, ABS, and TPO blended with rubber elastomers. Our manufacturing kingdom consists of six factories located in Dongguan, Guangzhou, Yichun, Anyang in China, and Binh Duong and Bac Ninh in Vietnam.

We possess advanced sheet extrusion and compression molding production lines, along with comprehensive capabilities for final product design, engraving, and vacuum forming. This allows us to provide professional support for engineering plastic sheets and processed products.

With over 15 years of industry experience, we take pride in being a trusted supplier to renowned companies such as Amazon, North American Plastics, EM PLASTIC, and K.S.R Plastic, which speaks volumes about our company's credibility and product quality. Polyreflex continuously innovates through the optimization of materials, processes, and formulations, enhancing efficiency and offering competitive price-performance ratios for our products in over 70 countries and regions worldwide. We are not just a supplier of sheets; we are also a provider of finished products. We invite you to join us in a mutually beneficial partnership.

### Brand Inspiration

- Interconnected smiles of clients, suppliers, partners, and employees merge into infinite symbols, symbolizing endless innovation.
- Colorful products offer better living possibilities.
- Polyreflex: A thermoplastic reflection.

UHMWPE Sheet .....	01
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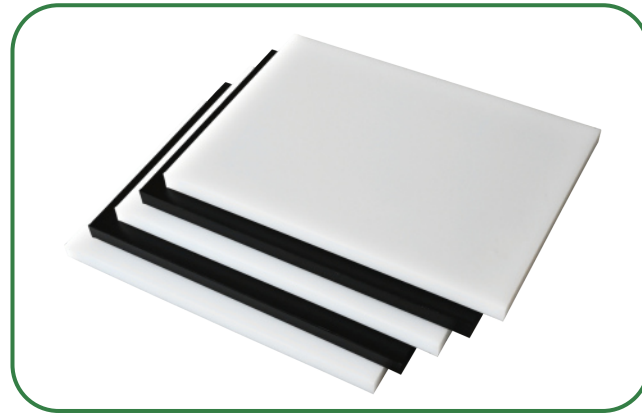




# UHMWPE SHEET

Polyreflex UHMWPE (Ultra-High Molecular Weight Polyethylene) sheets are made from a specialized polyethylene with a molecular weight typically ranging from 3 to 9 million g/mol, significantly higher than standard polyethylene. The high molecular weight of UHMWPE gives it exceptional durability, abrasion resistance, and low friction, making it ideal for heavy-duty applications.

With advantages such as wear and chemical resistance, high impact strength, and a non-stick surface, these sheets perform in the most demanding environments. Widely used across industries like food processing, manufacturing, mining, and construction, Polyreflex's UHMWPE sheets offer superior performance and reliability for a range of industrial applications.



High Wear Resistance



High Impact Strength



Chemical & Corrosion Resistance

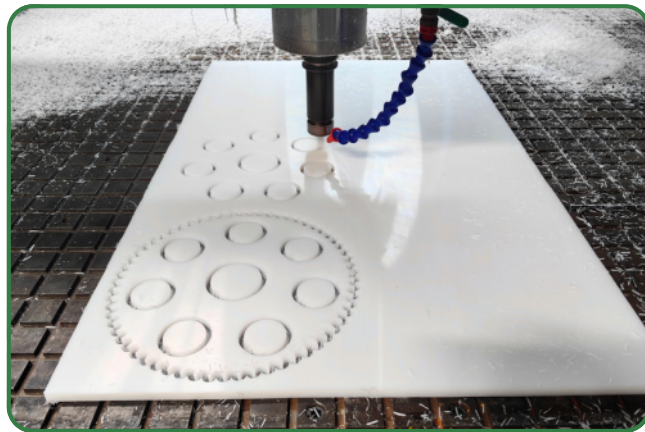


Low-Temperature Resistance

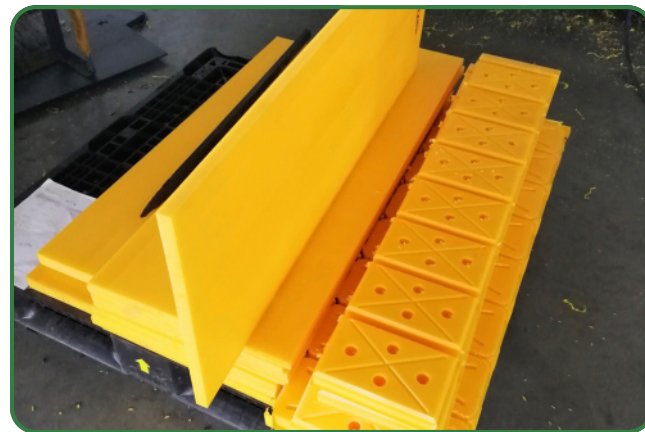


Self-Lubrication

## PROCESSING



CNC Machining



Custom Processing

## MANUFACTURING



1. Feed the raw materials



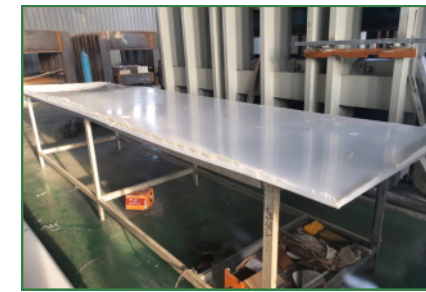
2. Make them flat and even



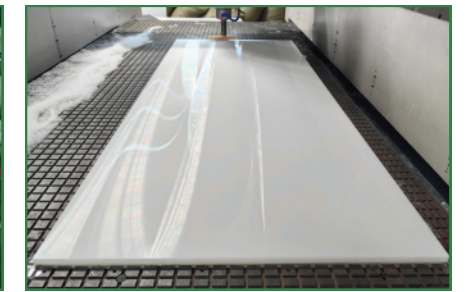
3. Compression molding



4. Demolding



5. Trimming



6. Milling

## APPLICATION



Dock Fender Pad



Chute Liner



Ice Hockey Floor



Crane Outrigger Pad



Chain Guides



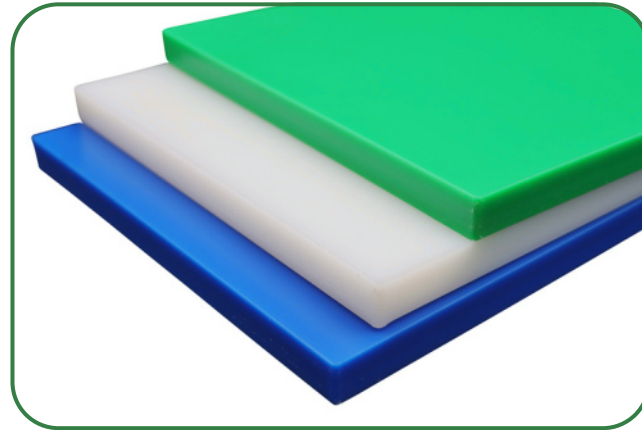
Industrial Parts



# HDPE SHEET

Polyreflex HDPE sheets are high-performance thermoplastic materials known for their exceptional durability, impact resistance, and versatility across a range of demanding applications. HDPE is chemically resistant, non-toxic, and low in moisture absorption, ensuring long-lasting performance in harsh environments.

In addition to its physical toughness, it can be easily processed through cutting, drilling, welding, or vacuum forming, allowing for customized solutions tailored to specific industry requirements. Whether used in heavy-duty packaging, industrial components, or marine, Polyreflex's HDPE sheets offer reliable solutions across a range of industries, making them an excellent choice for projects that demand resilience and adaptability.



High Impact Resistance



High Wear Resistance



Excellent Machinability

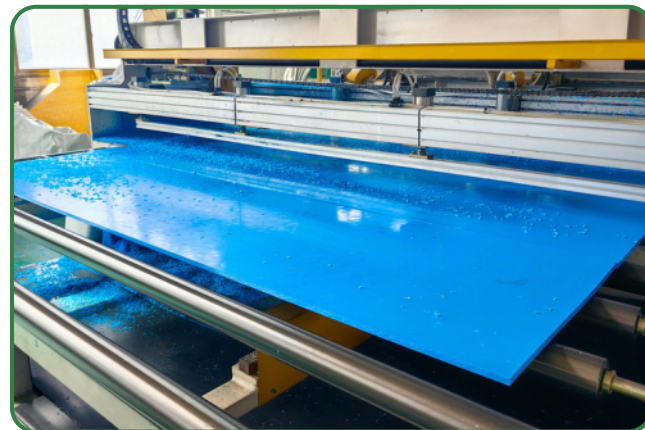


Chemical & Corrosion Resistance

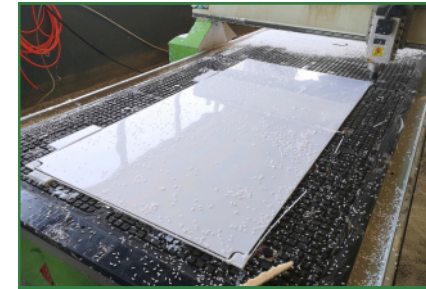


Food-Grade and Safety

## MANUFACTURING



## PROCESSING



CNC Machining



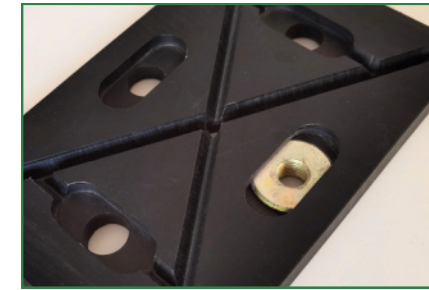
Vacuum Forming



Welding



Thermal Bending



Embedding Hardware



Printing

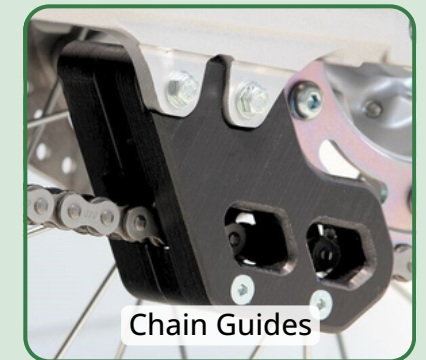
## APPLICATION



Industrial Tank



Chute Liner



Chain Guides



Marine Board



Cutting Board



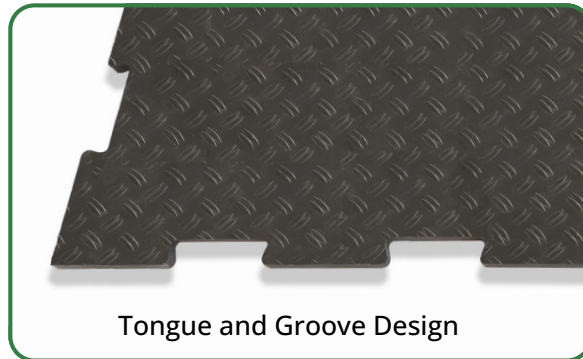
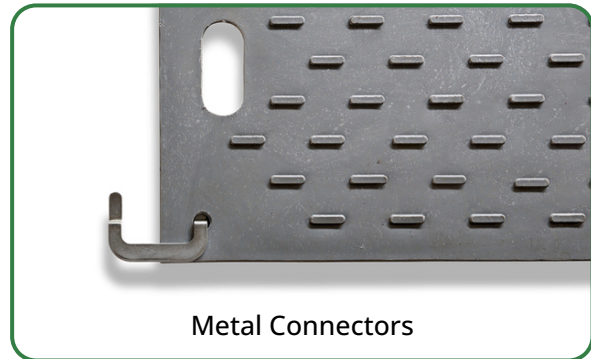
Playgrounds



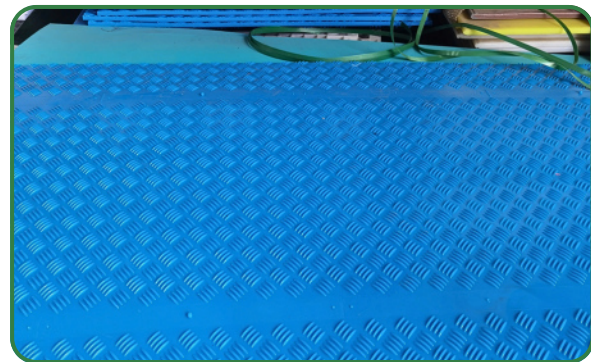
# GROUND MATS

Polyreflex ground mats, made from durable HDPE and UHMWPE, provide safe, eco-friendly surface protection for demanding environments like construction sites, outdoor events, and oil fields. They create temporary roads and work platforms with an anti-slip surface that prevents slipping in wet or muddy conditions. Easy to install and reusable, these mats offer stable support for vehicles, ensuring reliable and cost-effective ground protection.

- Connection Mechanism



- Custom mat sizes, colors, and logos



## APPLICATION



# POLYETHYLENE RODS

Polyreflex polyethylene rods are available in two high-quality materials, HDPE and UHMWPE, each offering unique benefits suited to a wide range of applications. Known for their exceptional durability, low friction, and resistance to chemicals, these rods are reliable and versatile for industries requiring robust material performance.

HDPE and UHMWPE rods are particularly well-suited for use in machinery components, food processing equipment, medical devices, and marine environments, providing longevity and consistent performance even in challenging conditions.



High Impact Resistance



Durability



Chemical & Corrosion Resistance

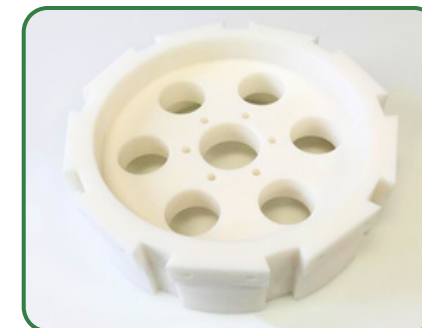
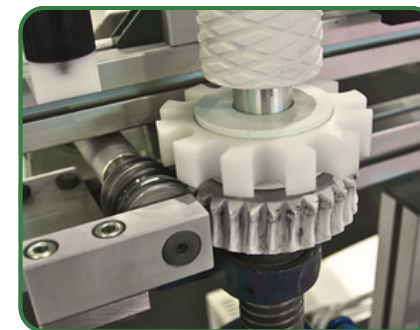


Easy to process



Food-Grade and Safety

## APPLICATION

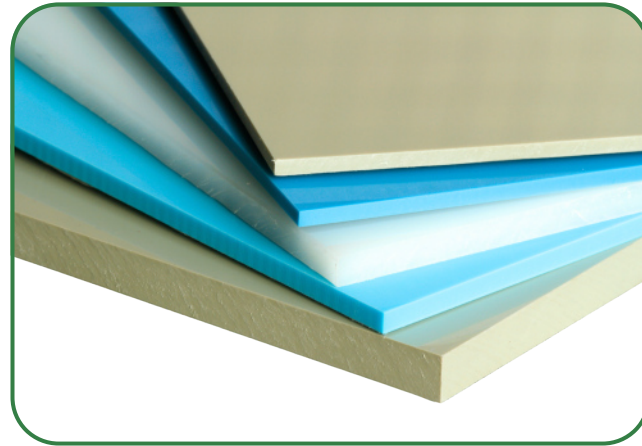




# POLYPROPYLENE SHEET

Polyreflex PP sheet is a versatile and durable material known for its excellent chemical resistance and impact strength, making it ideal for a variety of industrial applications. As a fully recyclable and eco-friendly product, it aligns with sustainable manufacturing standards, reinforcing Polyreflex's dedication to environmentally conscious production.

Offering high flexibility and cost-effectiveness, our PP sheets are used across numerous industries, including chemical processing, medical facilities, and water treatment, demonstrating adaptability to diverse and demanding environments. Designed to perform reliably even in harsh conditions, Polyreflex's PP Sheet provides an ideal solution for customers seeking long-lasting and sustainable material options.



High Impact Strength



Moisture Resistance



Conductive Grade



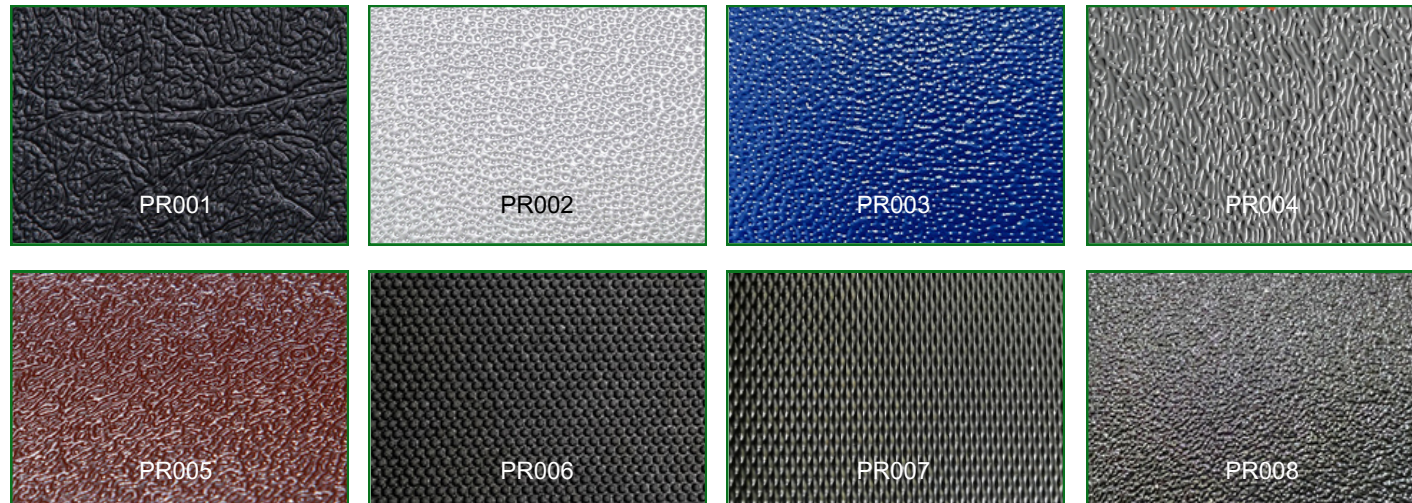
Chemical Resistance



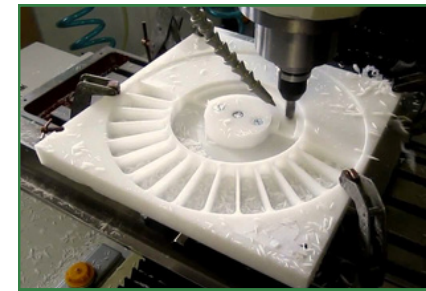
Food Contact Safe

## TEXTURE OPTIONS

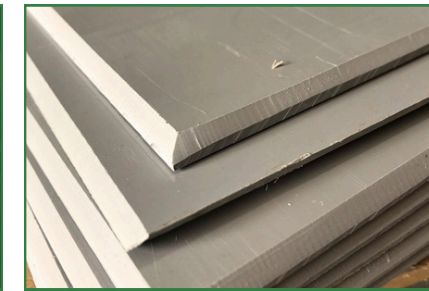
• Both PP sheets and PE sheets are applicable.



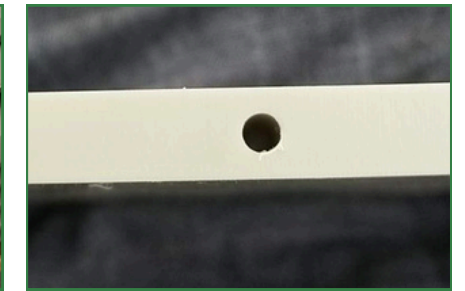
## PROCESSING



CNC Engraving



Chamfering



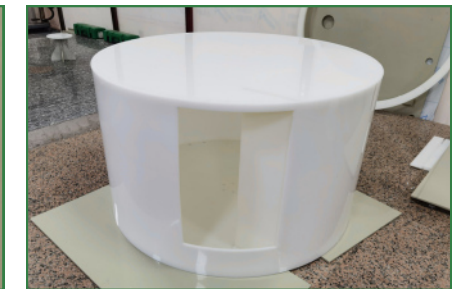
Pre-Drilling



Rod Welding



Butt Welding



Finish Assembly

## APPLICATION





# POLYPROPYLENE FILM

Polyreflex PP film, crafted from high-quality polypropylene resin, is renowned for its lightweight and durable properties, making it an ideal choice for a wide range of applications. This versatile material boasts exceptional resistance to moisture, chemicals, and UV rays, ensuring longevity and reliability in various environments.

With excellent printability, it allows for vibrant, high-quality branding and marketing solutions that capture attention. Additionally, its recyclable nature positions it as an eco-friendly alternative, making it suitable for industries such as packaging, signage, stationery, and more, paving the way for innovative and sustainable applications across multiple sectors worldwide.



Lightweight



Moisture Resistance



UV Stability



Excellent Printability



Recyclable

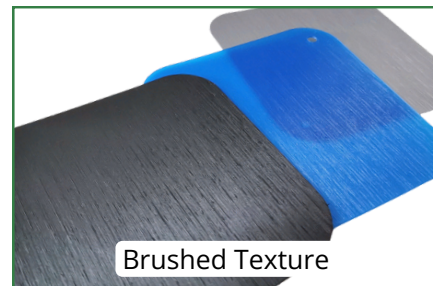
## TEXTURE OPTIONS



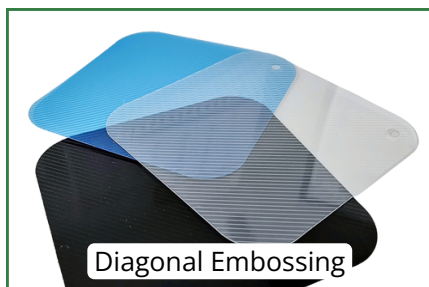
Glossy



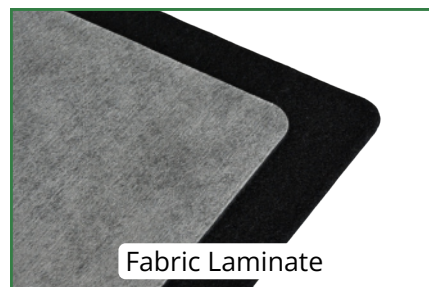
Matt



Brushed Texture



Diagonal Embossing

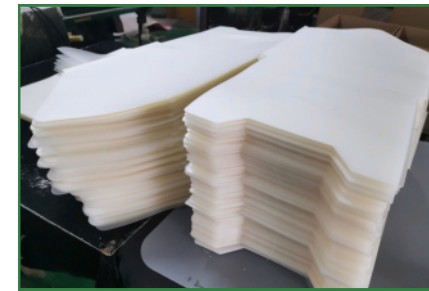


Fabric Laminate

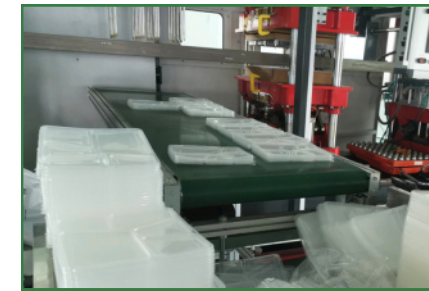


Multiple Colors

## PROCESSING



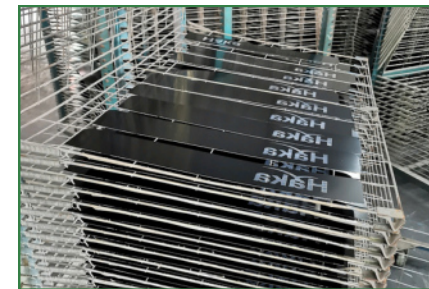
Die-Cutting



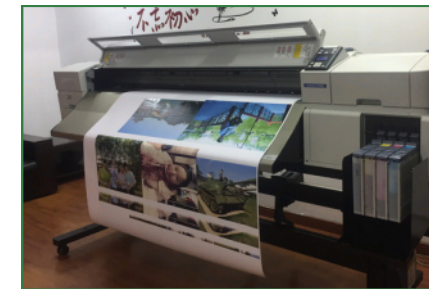
Vacuum Forming



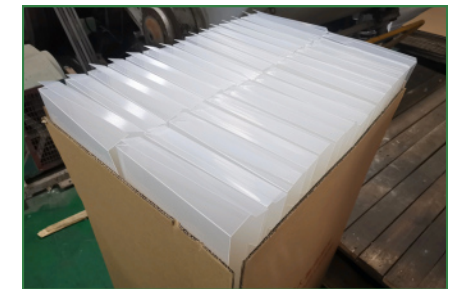
Punching & Stapling



Silk Screen Printing



Digital Printing



Heat Folding & Sealing

## APPLICATION





## MANUFACTURING CAPABILITY

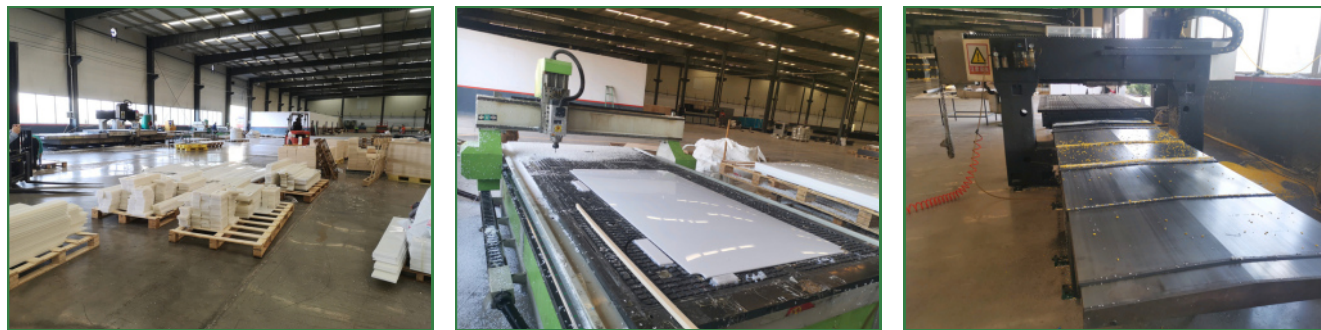
- Production Workshop



- Vacuum Forming Workshop



- Machining Workshop



- Laboratory



## PACKING & LOADING

### PACKING



### LOADING

