



Innovative Plastic Sheet and Box Maker

## Polyreflex Hi-Tech Co., Ltd.

Polyreflex team with over 15 year experiences, specializing in the manufacture of lightweight plastic sheets, one-stop solution for thermoforming, machining, and assembly, dedicated to signs and displays, logistics and packaging, vehicles, and chemical industries. Warmly welcome project purchasing managers, wholesalers, individual consumers and designers to write us your requirements.

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<u>38</u>

regions

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**Polyreflex** 

 $\infty$ Our products  $\infty$  solutions We employ 710 employees

<u>15</u>

Company profile

<u>6</u>

At 6 locations

<u>89,000</u>

Over 89,000 m2 production area

More than 15 years technology know-how

**100%** We are there for you with 100%

<u>60,000</u> Every year we produce 60,000 Sell more than 38 countries and tons Polyreflex materials

engagement

Everything from 1 source



Corrosion Resistance

**SPECIFICATIONS** 



## Low Temperature Resistance

PROCESSING SERVICE

**Polyreflex High Density Polyethylene Sheet** 

FABRICATION SERVICE

USES

## Polyreflex high density polyethylene sheet (HDPE)

**Description** 

DESCRIPTION

# is a durable and versatile thermoplastic, which could offer high impact strength, high

friction resistance, toughness with wide temperature range from -50°C to 80°C. HDPE sheet has effective resistance to chemicals and good welding ability, so it can be easily welded into chemical tanks. HDPE is resistant to corrosion, mold, mildew, and rotting, this makes it extremely durable in various

TEXTURED SURFACE

environments. At the same time HDPE board is widely used for light industry, it is an ideal material for replacing metal to make mechanical parts. These are just a few of the popular HDPE applications. However, it can be useful in nearly any application where strength, moisture resistance, and chemical resistance are necessary.

can maintain toughness without



Good Toughness and Rigidity

### **Chemically Stable** High density polyethylene sheet has the properties of acid and alkali resistance, it is resistant to most chemicals for daily use and industrial.

### **\* Low Temperature** Resistance Unlike most plastics, polyethylene sheet has the characteristics of low temperature resistance, even at minus 40 degrees, it

Recycling HDPE sheet is 100% recyclable. After the used polyethylene material is fragmented and heated to the melting point, it can be recycled, sorted and reused.



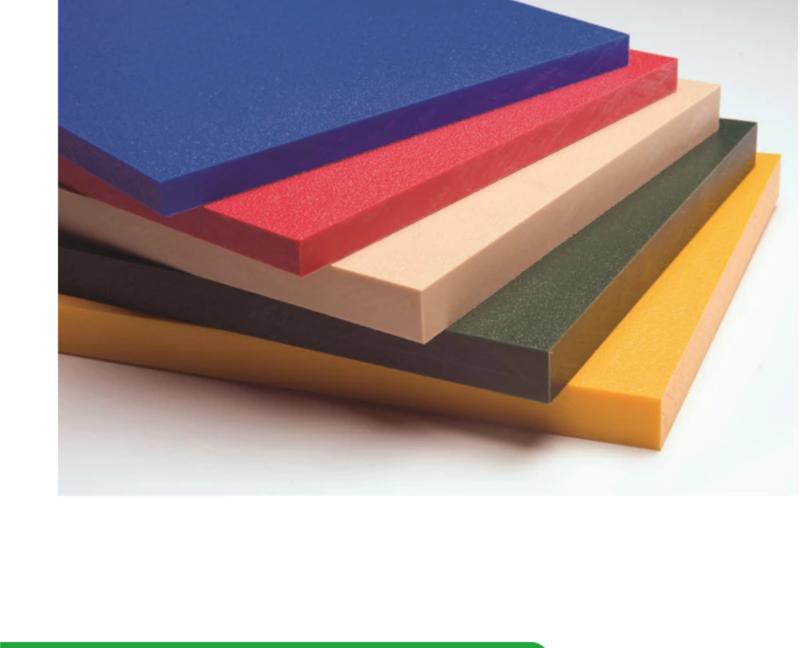
**Highly Processable** Due to its high machinability, HDPE sheets can be processed using a variety of machining methods, such as cutting, welding, deep drawing, routing, riveting,

milling, and hot and cold forming.

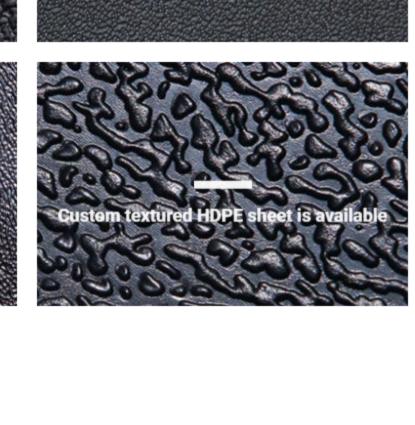
**Specifications** 

Product Type	Ultra-thin	Thin	Thick	Ultra-thick
Image				
Thickness	0.4mm - 2.9mm	3mm - 25mm	30mm - 100mm	105mm - 200mm
Width	Max. 1900mm	Max. 1900mm	Max. 1220mm	Max. 1000mm
Standard Size	1220*2440mm, 1500*3000mm	1220*2440mm, 1500*3000mm	1220*1220mm, 1000*2000mm	1000*2000mm
Surface	Various texture options	Various texture options	Smooth	Smooth
Density	0.96 - 1.0 g/cm3			
Color	Natural, white, black, green are standard colors, custom colors are available			
Service options	CNC machining, welding, bending, thermoforming, fabrication and assembly			

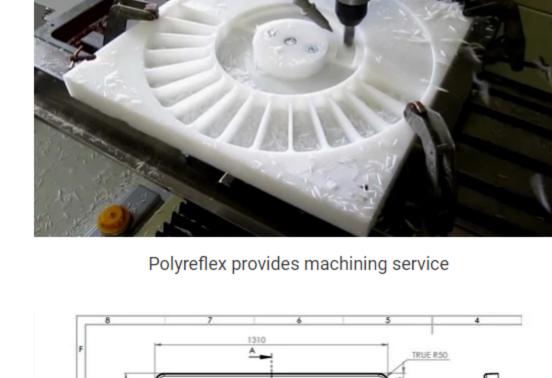
**Textured Surface** 







**Processing Service** 

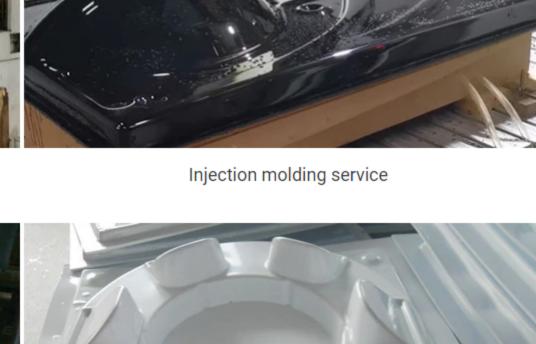


1) Send us your drawings and requirements



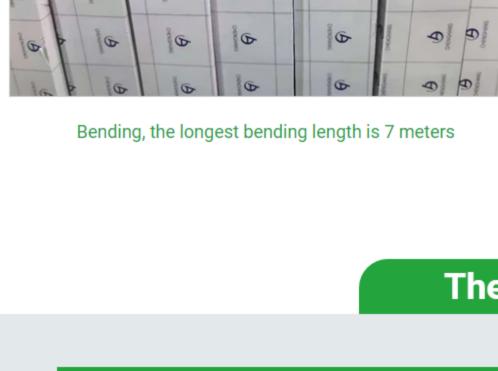
GEISSAG

2) We make the thermoforming moulds



3) Sample testing and mass production

**Fabrication Service** 



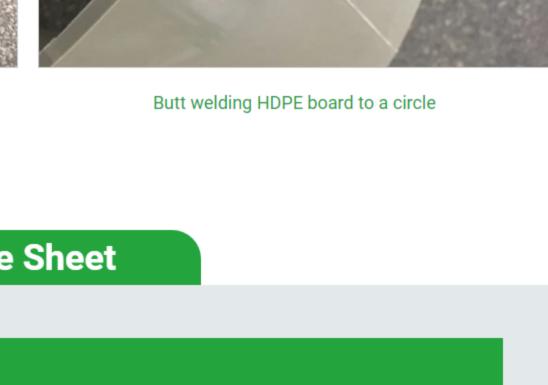
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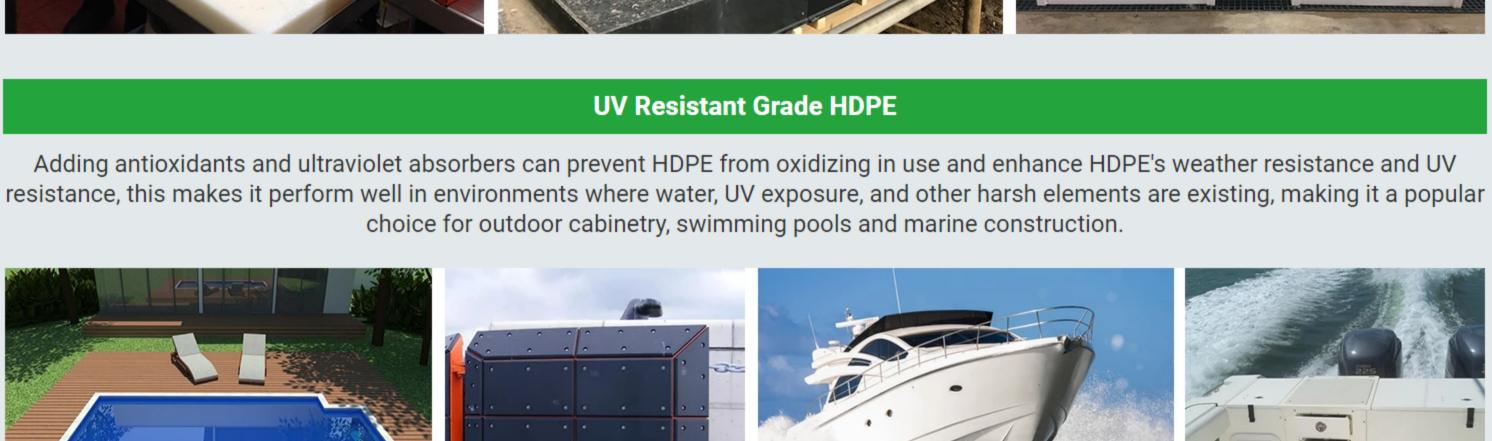


**Industrial Grade HDPE** As a member of the polyolefin family, HDPE has good electrical properties, and exhibits strong corrosion resistance and durability in response to chemical solvents and different temperatures, making it an ideal material for industrial applications. Consumption of HDPE

storage tanks is growing usually in oil industries, chemical industries producing acids alkalies etc.



## **VIEW MORE Food Grade HDPE** Special additives are used for food contact HDPE to reduce the propagation of E. coli and Staphylococcus aureus. The Matte HDPE sheet is specifically designed for manufacturing cutting boards. HDPE cutting board, for direct and indirect food contact, is resistant to hot water, and cleaning chemicals, and will not absorb moisture, bacteria or odors. The smooth HDPE board can be welded into large tanks and sumps for the cultivation of aquatic products.

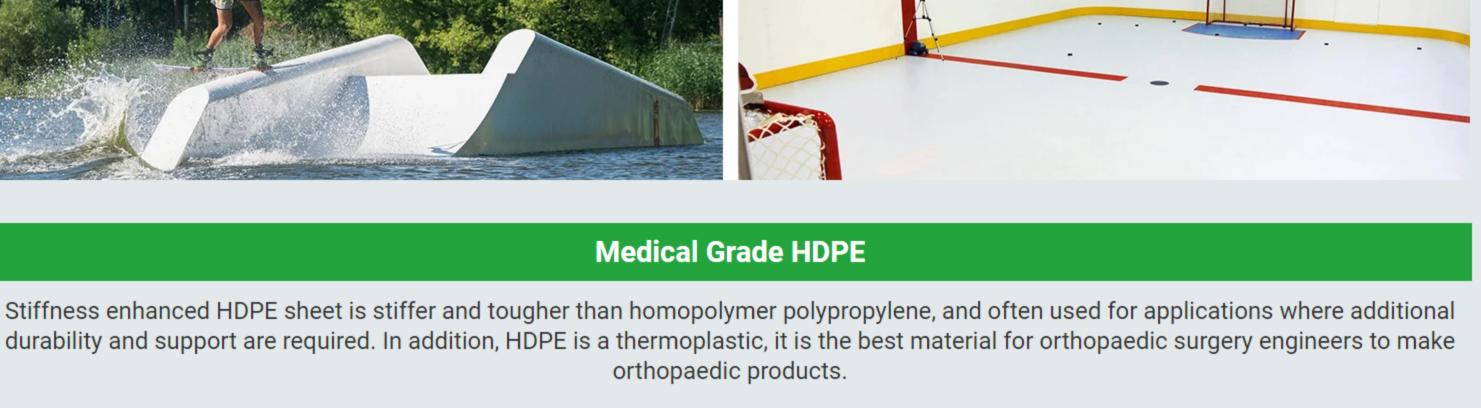




## stricter requirements on the intensity of use, such as the slide for wakeboarding, amusement park. Combined with the advantages of low temperature resistance of HDPE board, it is suitable for ice hockey rink flooring, roller skate rink floor lining.

**Reinforce Grade HDPE** 

Polyreflex reinforced HDPE board is at least 20% stronger compare to the standard HDPE board. It is developed for applications that have



- **List of Test Reports** \* HDPE Sheet RoHS Test Report
- \* HDPE Sheet FDA Test Report
- If you would like to discuss your specific product requirements further, please feel free to contact us.

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