

# HDPE Sheet

\*Also available in Rod&Tube

HDPE is a durable material that can withstand a lot of stress. It is a relatively flexible material that is very suitable for long-term use. High density polyethylene is not only resistant to loads, but is also hardly subject to chemical attack. Bacteria and dirt have difficulty adhering to polyethylene.



## TECHNICAL DATA

### Applications

- Chemical tanks
- Marine construction
- Cutting boards for food preparation
- Light duty tank, chute and bin linings
- Outdoor and indoor playground systems
- Outdoor cabinetry and furniture

### Characteristics

- Easy to weld using thermoplastic welding equipment
- Excellent chemical and corrosion resistance
- Minimum water absorption (< 0.01%)
- Easy to fabricate and machine
- Excellent surface for food preparation
- Low weight

### Physical Properties

Property	Unit	Value
Density	g/cm <sup>3</sup>	0.93-0.96
Water Absorption 24 hrs	%	<0.01
Elongation At Break	%	754
Flexural Yield Strength	MPa	15.7
Rockwell Hardness		56
Notched Impact Strength	KJ/m <sup>2</sup>	60
Maximum Service Temperature	°C	85

# HDPE Series

# HDPE Access Mat

Made from 100% recycled HDPE material, our Ground Protection Mat is tailor-made for the landscaping, building, agriculture, and utilities sectors.

This innovative ground protection solution not only provides a sustainable substitute for conventional materials like plywood, but also delivers a heightened level of worksite safety.



## Applications

- Pedestrian walkways/Roadways
- Landscaping
- Outdoor events and festivals
- Sports and leisure facilities

## Characteristics

- 100% recycled high-density polyethylene (HDPE)
- Optional hand holes for easy maneuverability
- Withstand all weather conditions
- Contours to different ground conditions due to its flexible design
- More cost-effective solution than traditional alternatives like plywood
- 100% recyclable after use

## REGULAR SIZE

Regular size	Thickness	Color
1220*2440mm(4'*8')	10mm/12.7mm/15mm/20mm/25mm	Support customization
910*2440mm(3'*8')	10mm/12.7mm/15mm/20mm/25mm	Support customization
610*2440mm(2'*8')	10mm/12.7mm/15mm/20mm/25mm	Support customization
910*1830mm(3'*6')	10mm/12.7mm/15mm/20mm/25mm	Support customization
610*1830mm(2'*6')	10mm/12.7mm/15mm/20mm/25mm	Support customization
610*1220mm(2'*4')	10mm/12.7mm/15mm/20mm/25mm	Support customization

\* All size can be customized according to your request

\* Support logo customization

\* All regular colors support customization

## Tread design



TYPE A



TYPE B



TYPE C

## Connector design



Ground protection mat connector 2-way attach at the corner holes to hold mats together and prevent them from slipping or moving around under turning vehicles.

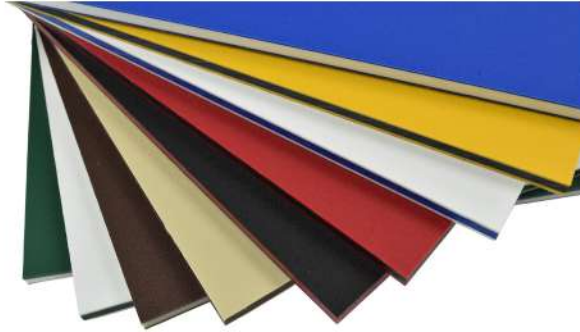
Flat Turn-A-Links offer a lower profile to minimize tripping hazards on walkways.



# Colorcore Sheet

Colorcore Plastic Sheet is a durable, versatile HDPE sheet with layers of contrasting colors, making it ideal for signage, marine, and playground applications since it never needs painted or refurnished like wood.

Our engravable HDPE sign sheets will not rust, delaminate or rot even when exposed to UV, humidity or water.



## Applications

- Signage
- Point of purchase displays
- Picnic tables
- Marine Applications
- Carnival games
- Architectural applications



## Characteristics

- Matte finish on both sides
- Resistant to harsh weather conditions
- More durable than other conventional sign materials
- Will not rust or delaminate or rot when exposed to UV, humidity, or water
- Easy to work with using woodworking tools and techniques



# Rebound Board



\*Regular size:100 cm x 40cm x 20mm

The ultimate soccer training equipment for improving passing accuracy and ball control. Durable training rebound board made from impact resistant polypropylene composite, perfect for consistent skill training sessions. Foldable angled legs for all-surface grip and an easy-carry handle.

## Characteristics

- Made from an ultra-durable polypropylene composite material
- Collapsible angled legs allow for enhanced grip on all surfaces indoor or out
- Dual-angle rebound board with both angles providing a different type of rebound
- Low maintenance and easily cleanable
- Easy and safe installation
- Available in UV resistant materials.



# Boron PE Sheet

# Concrete PE Liners

Boron Polyethylene Sheet is a new type of shielding material against neutron radiation, which has been widely used in nuclear power, medicine, national defense, and other industries.

Boron Polyethylene Sheet can effectively prevent the harm of nuclear radiation and neutron radiation to individuals and society. It also has extremely high wear resistance and excellent chemical corrosion resistance.



## Applications

- Airport Security and Sea Port Security
- Medical Vaults
- Nuclear Reactors/Storage
- Research Applications
- Linear Particle Accelerators

## Characteristics

- Neutron shielding
- Significant reduction of gamma-capture dose
- Replaces lead in nuclear shielding applications
- Lighter weight and lower cost than lead



Concrete protective liners combine the advantages of thermoplastics (flexible, ductile, corrosion resistant) with those of concrete (high strength, high stiffness). Thus, the concrete is protected effectively and the durability and life expectancy is increased.

## Characteristics

- Applicable for a wide variety of concrete structures
- Secure mechanical anchoring to the concrete structure
- High elasticity to bridge cracks in the concrete
- High impact resistance
- Excellent shear resistance
- Suitable for aggressive media (corrosion resistant)
- Applicable within a wide temperature range
- Long life expectancy



Nuclear Reactors



Research Application



Cargo Detection



X-Ray Facilities



Neutron Shielding Door

