



ONE-STOP SUPPLIER OF ENGINEERING PLASTIC



Engineering Plastic



Machining Service



Application



# UVPLASTIC

Corrugated Polycarbonate Sheet (UVCPC)

[www.uvplastic.com](http://www.uvplastic.com)

[www.uvacrylic.com](http://www.uvacrylic.com)

# ABOUT UVPLASTIC

2003

Founding Time

165

Staffs

50+

Countries

1200+

Clients

12+

Millions

## WHO WE ARE

UVPLASTIC Material Technology Co., Ltd is a *ONE-STOP SUPPLIER* in the engineering plastic field, established in 2003 at Suzhou, China. After many years of continuous effort, we have one subsidiary and three trademarks ([UVPLASTIC](#), [UVACRYLIC](#), [VIEWSKY](#)), main business are:

1. Engineering Plastic: providing polycarbonate and acrylic in all forms;
2. Machining Service: providing the integrated machining solution for engineering plastic;
3. Application: we design and manufacture products based polycarbonate and acrylic, including [VIEWSKY Bubble Tent](#), [Geodesic Dome Tent](#), [Office Chair Mat](#), [Riot Shield](#), Mini-Greenhouse, etc.

Today, UVPLASTIC is active in architecture & construction, agriculture, medical industry, auto industry, security industry, electronic industry, POP display, optical industry, and industrial fabrication, etc.

## COOPERATION PARTNER



# WHY UVPLASTIC

## *One-Stop Supplier*



UVPLASTIC is a one-stop [supplier of polycarbonate](#) and [acrylic sheets](#) in all forms. Meantime, we offer the complete system for the greenhouse, building roof, and facade system.

## *Machining Service*



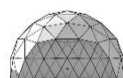
With more than 15 years of experience and high efficient working style, UVPLASTIC can build the prototype and will make customer's ideas come true within short time.

## *Design and Development*



With assistance from CAD, Solidworks, CATIA, and UG, UVPLASTIC works with global engineers to discuss product feasibility and find the best solution for the projects.

## *Design it and make it*



UVPLASTIC have designed some products based on polycarbonate and acrylic, such as VIEWSKY Bubble Tent, Geodesic Dome Tent for hotel, restaurant, glamping, and display application. The mini-greenhouse and office chair mat are popular all over the world.

## FEATURED PRODUCTS

### UVPLASTIC Polycarbonate

[Solid Polycarbonate Sheet](#);

[Anti-Static Polycarbonate](#);

[Polycarbonate Light Diffuser](#);

[Multi-wall Polycarbonate](#);

[Polycarbonate Film](#);

[Corrugated Polycarbonate](#);

[Polycarbonate Roofing Panel](#);

[Polycarbonate Facade](#);

### Machining Service

[Machining Polycarbonate](#);

[Custom Acrylic](#);

### UVACRYLIC Plexiglass:

[Clear Acrylic Sheet](#);

[Colored Acrylic Sheet](#);

[Acrylic Rod](#);

[Acrylic Tube](#);

[Acrylic Mirror](#);

[Acrylic Block](#);

[LGP Acrylic](#);

[Acrylic Film](#);

### Glamping Dome Tent

[VIEWSKY Bubble Tent](#);

[Geodesic Dome](#);



***STRONGER***

***MORE DURABLE***

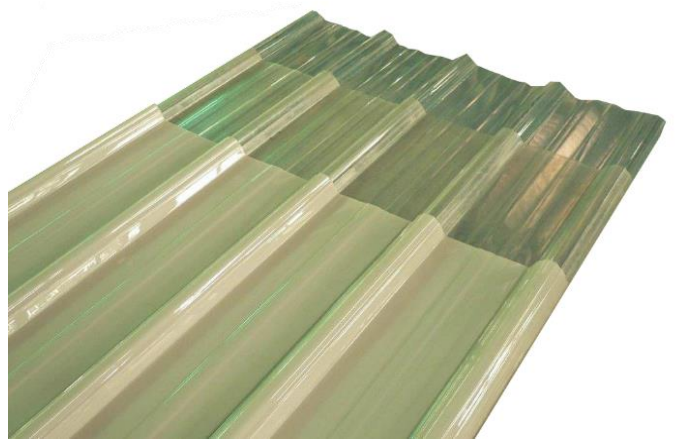




## Corrugated Polycarbonate Sheet

UVCPC Corrugated Polycarbonate Sheet is one of the most lightweight roofing panels with high impact toughness and durable property. It is designed to match the specific profiles of metal corrugated sheets for industrial roofing as a skylight. It is also used for greenhouse roof, and wall or the DIY carport in your backyard.

The co-extruded UV coating layer block more than 99% of ultraviolet rays, therefore, corrugated polycarbonate sheet has wonderful weather ability, a low yellow index. Normally, the lifespan will be more than 10 years. Corrugated polycarbonate sheet is virtually unbreakable with a thickness range from 0.8mm to 2mm. It withstands the most terrible weather without breaking or buckling including hailstone, heavy snowfall, rainstorm, sandstorm, ice formation, etc. The normal color is clear/transparent, but custom colors are available.

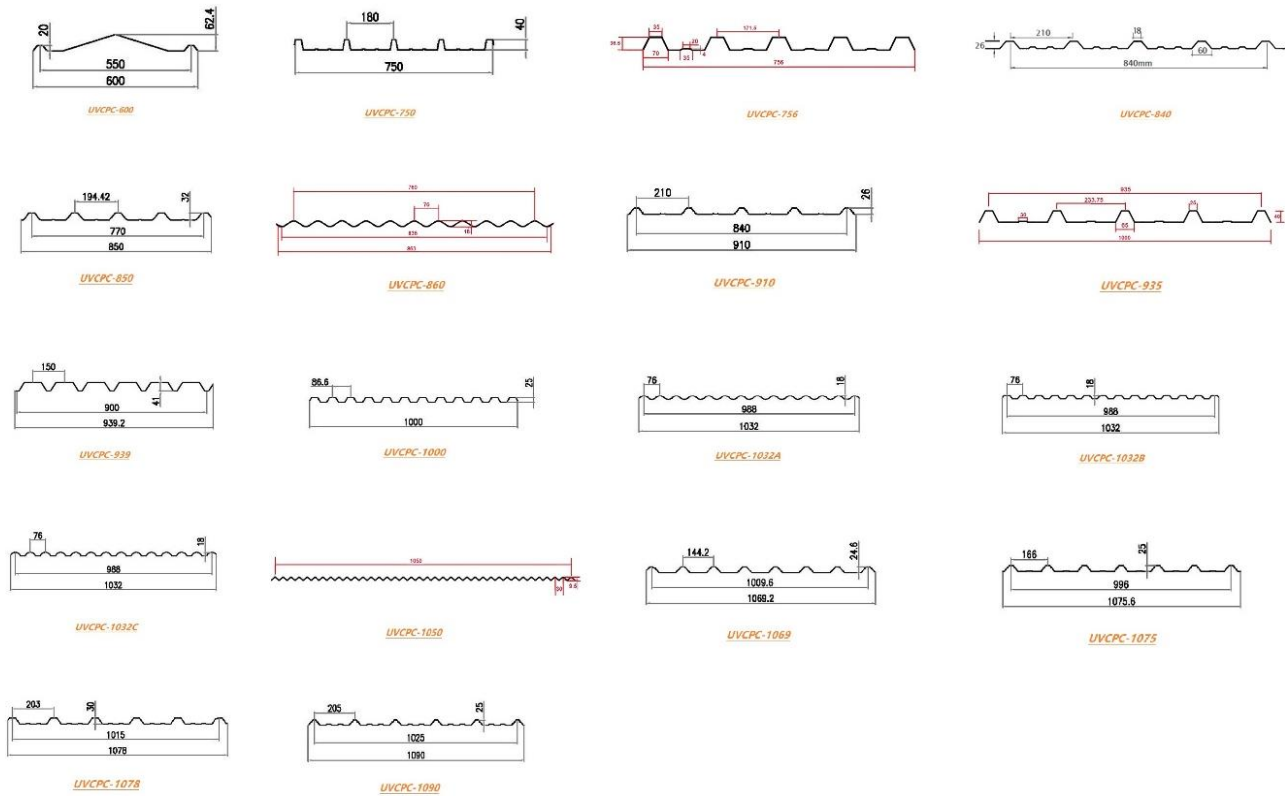


### Main Benefits

- Up to 90% Light Transmittance, and clear like glass;
- Outstanding impact resistant and virtually unbreakable;
- More than 200 profiles are available;
- Custom service matches any profiles;
- Blocks 99% of harmful ultraviolet radiation;
- Excellent weather resistance;
- Easy to install with standard tools;
- UP to V-0 Fire rating;

## Product Range

### MODEL AND PROFILE



### CO-EXTRUDED UV PROTECTIVE LAYER

Model	Description
UVCPC-U1	Standard model with co-extrude UV protective on one side
UVCPC-U2	Co-extruded UV protective layer on both sides for outdoor application

### COLORS

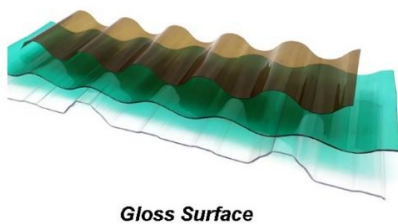
Type	Colors Description
Transparent	Clear, Brown, Bronze, Gary, Blue, Green
Translucent	White Opal, White Diffuser, Yellow, Red, Mint Green
Opaque	Black, White Opal, Yellow, Dark Blue, Red, Dark Grey, Dark Brown

Customized colors are available upon request, subject to a minimum order.

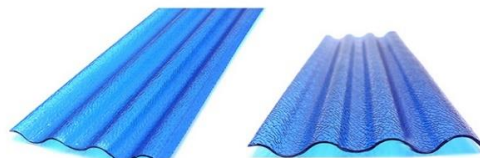
## THICKNESS

Thickness (mm)	Polished Surface	Prismatic Surface
0.8	○	
1	○	
1.5	○	
2	○	○

The Length can be customized under 12m; Customized dimensions are available upon request, subject to a minimum order.



*Gloss Surface*



*Prismatic Surface*

## PHYSICAL PROPERTIES

Physical Property	Testing Method	Unit	Value
Specific Gravity	D-792	g/cm <sup>3</sup>	1.2
Light transmittance	D-1003	%	>76
Heat deflection temperature (HDT)	D-648	°C	140
Service Temperature - Short term		°C	-50 to +120
Service Temperature - Long term		°C	-40 to +100
Impact falling dart	ISO 6603/1	J	40-400
Tensile Strength at Yield	D-638	Mpa or N/mm <sup>2</sup>	>60
Tensile Strength at Break	D-638	MPa or N/mm <sup>2</sup>	>65
Coefficient of Linear Thermal Expansion	D-696	mm/m °C	0.065
Thermal Conductivity	C-177	W/m K	0.21

Elongation at Break	D-638	%	>100
Tensile Modulus of Elasticity	D-638	MPa	2400
Flexural Strength	D-790	MPa	100
Practical thermal expansion/contraction		mm/m	3

## Applications

### WAREHOUSE ROOFING

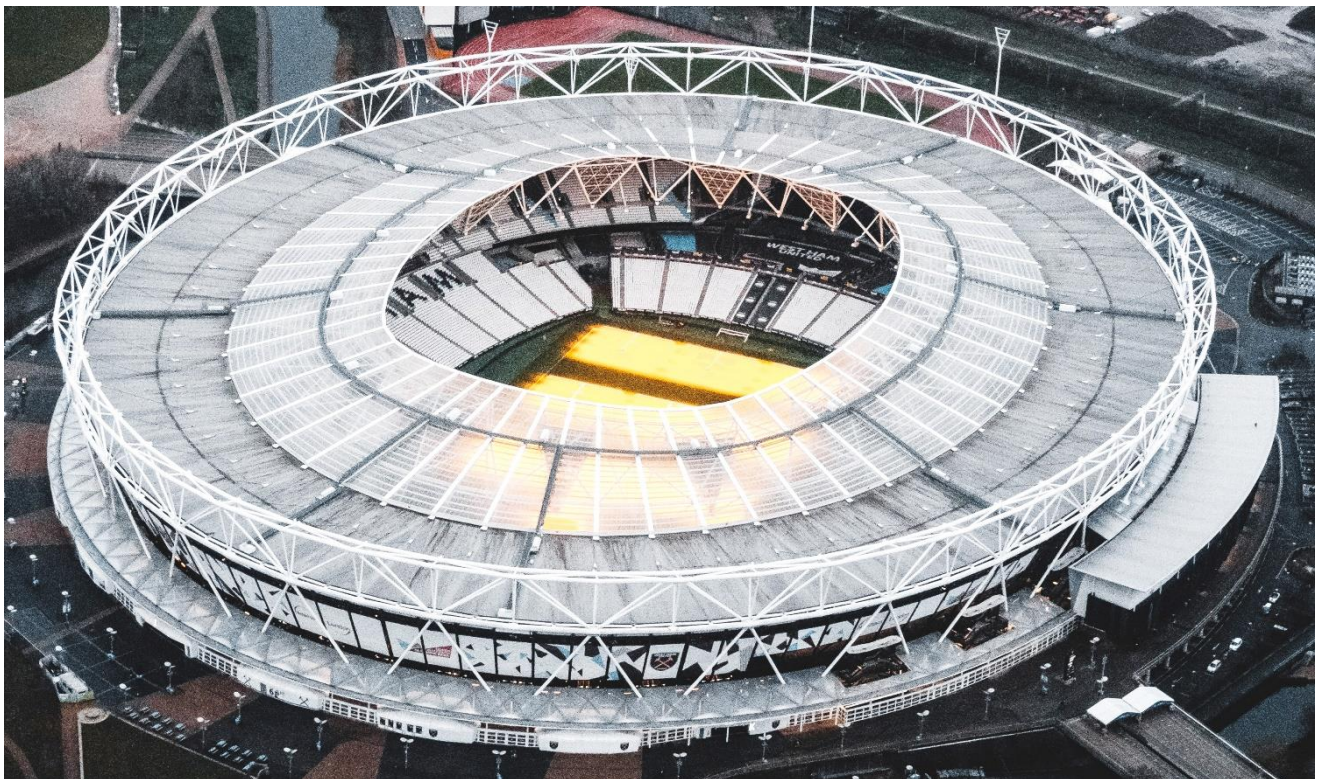
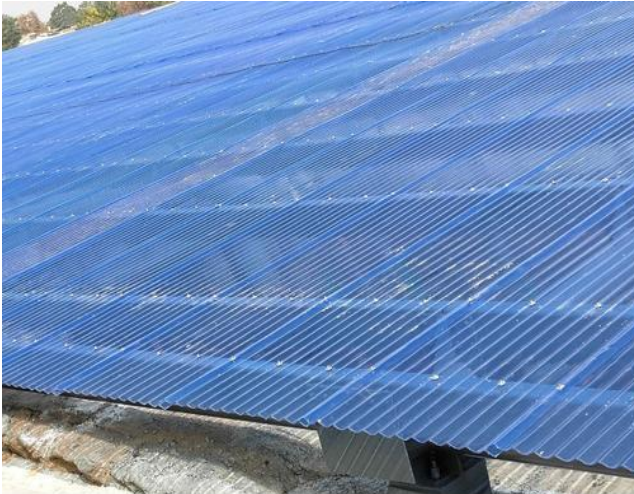
UVCPC Corrugated Polycarbonate Sheet offers great light transmittance, therefore, it is an ideal solution for industry roofing sheet, skylight, and sidelight.





### DIY & RESIDENTIAL PROJECT

UVCPC [Corrugated Polycarbonate Sheet](#) is really lightweight, it is easy to install. With the co-extruded UV protective layer, UVCPC corrugated polycarbonate sheet offers durability under all weather. It is the right choice for hobby greenhouses, sunroom, canopy, etc.







**AND MORE...**





## **CONTACT US**

**UVPLASTIC Material Technology Co.,Ltd**

Add: 205 Suzhou West Avenue, Suzhou Industrial Park, Suzhou City,  
China, 215000

Tel: +86 512 85186727

E-mail: [info@uvplastic.com](mailto:info@uvplastic.com)

Homepage: [www.uvplastic.com](http://www.uvplastic.com)