



ONE-STOP SUPPLIER OF ENGINEERING PLASTIC



Engineering Plastic



Machining Service



Application



UVPLASTIC

Multi Wall Polycarbonate Sheet (UVMPC)

www.uvplastic.com

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](#);

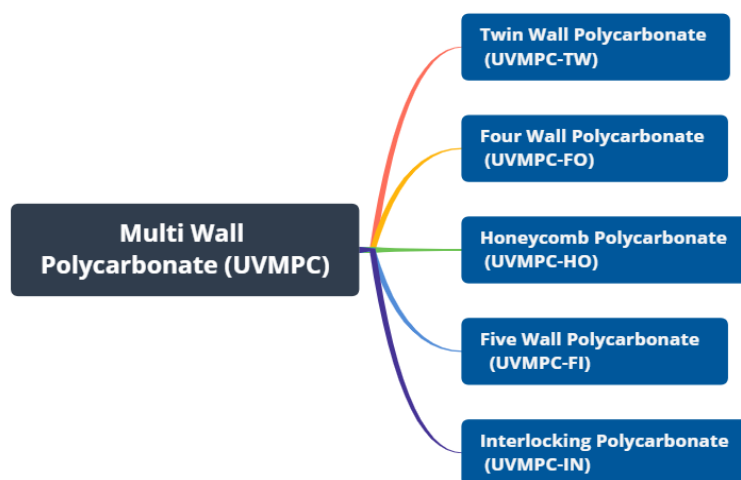
[Geodesic Dome](#);

Multi Wall Polycarbonate

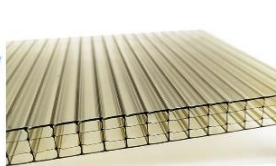
Multi Wall Polycarbonate Sheets are the extruded plastic sheets with a cellular structure. It offers two walls at least, therefore, multi wall polycarbonate sheets can create an insulating air space, which helps reduce thermal transfer and make it stronger and more shock resistance, otherwise, this cellular structure provides multi wall polycarbonate sheets with lighter weight and better energy efficiency than [solid polycarbonate sheet](#) and [PMMA sheet](#).

With the co-extruded UV protective layer(s) on one or two sides, multi wall polycarbonate sheets are suitable for exterior applications including greenhouse siding and roofing sheets, polycarbonate facade system, stadium roofing, skylight dome and interior applications like POP merchandising displays, home decoration, etc.

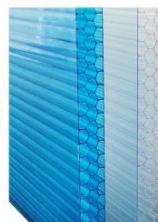
Product Range



Twin Wall Polycarbonate Sheet



Four Wall Polycarbonate Sheet



Honeycomb Polycarbonate Sheet



Five Wall Polycarbonate Sheet



Interlocking Polycarbonate Sheet



CO-EXTRUDED UV PROTECTIVE LAYER

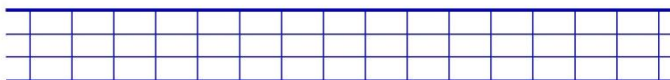
Model	Description
U1	Standard model with co-extrude UV protective on one side
U1A	Co-extruded UV protective layer on outside, anti-condensation treatment on inside for greenhouse
U2	Co-extruded UV protective layer on both sides for outdoor application

PROFILE

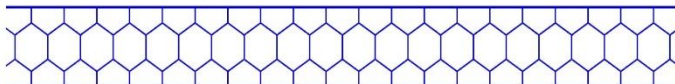
Twin Wall Profile



Four Wall Profile



Honeycomb Wall



Five Wall Profile



COLORS

Type:	Colors Description
Transparent	Clear, Brown, Bronze, Gary, Red, Blue, Green
Translucent	Black, White Opal, White Diffuser, Yellow, Red, Mint Green, White Opal
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)	Twin Wall	Four Wall	Honeycomb	Five Wall
4	○			
6	○			
8	○	○	○	
10	○	○	○	
12	○	○	○	
14		○	○	
16		○		
18		○		○
20		○		○
22				○
24				○
25				○
30				○

SIZE

Product Name	Width 500 (mm)	Width 1050 (mm)	Width 2100 (mm)
<u>Twin Wall Polycarbonate Sheet</u>		○	○
<u>Four Wall Polycarbonate Sheet</u>		○	○
<u>Honeycomb Polycarbonate Sheet</u>		○	○
<u>Five Wall Polycarbonate Sheet</u>		○	○

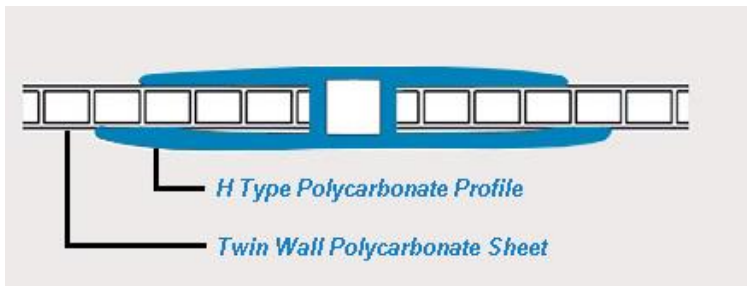
The Length can be customized under 12m; Customized dimensions are available upon request, subject to a minimum order.

PHYSICAL PROPERTIES

Physical Property	Testing Method	Unit	Value
Specific Gravity	D-792	g/cm ³	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 ²	>60
Tensile Strength at Break	D-638	MPa or N/mm ²	>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

Polycarbonate Profiles

H TYPE POLYCARBONATE PROFILE



H-1



H-2



H-3



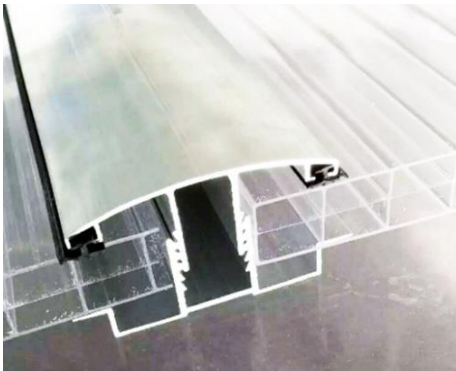
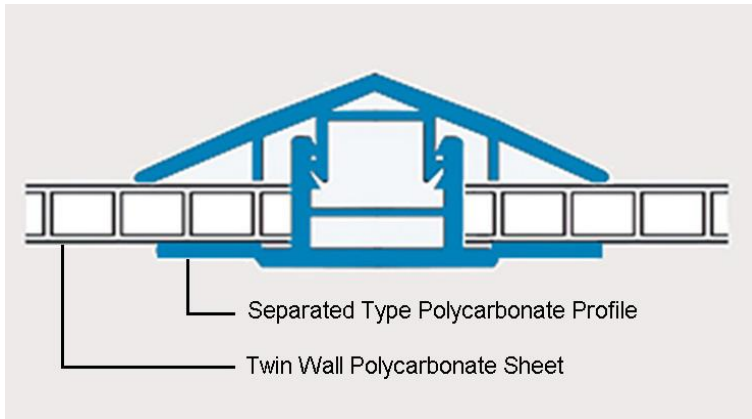
H-4



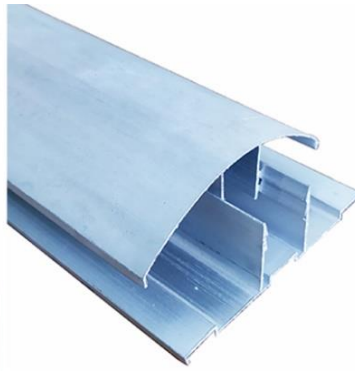
H-5

Product Name	6mm twin wall polycarbonate sheet	8mm twin wall polycarbonate sheet	10mm twin wall polycarbonate sheet
H Type Polycarbonate Profile (PC)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
H Type Polycarbonate Profile (Aluminum)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

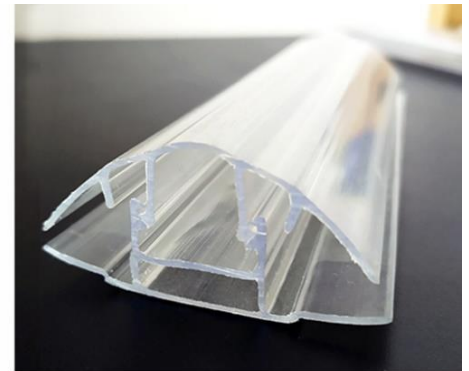
SEPARATED TYPE POLYCARBONATE PROFILE



S-1



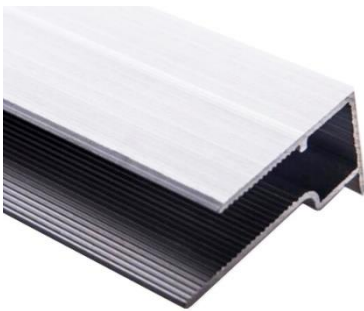
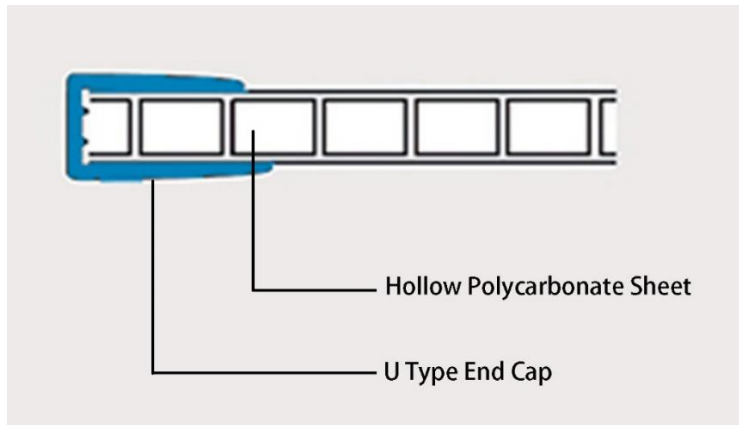
S-2



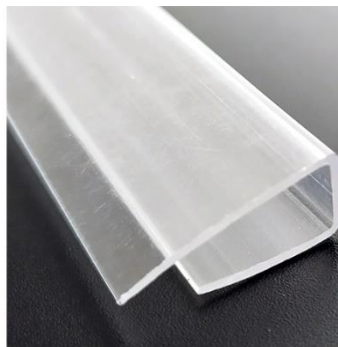
S-3

Product Name	12mm hollow sheet	14mm hollow sheet	16mm hollow sheet	18mm hollow sheet
Separated Type Polycarbonate Profile (PC)	○	○	○	
Separated Type Polycarbonate Profile (Aluminum)		○	○	○

U TYPE POLYCARBONATE END CAP



U-1



U-2



U-3

Product Name	6 - 8 mm hollow sheet	10 - 12 mm hollow sheet	16 - 18 mm hollow sheet
U Type Polycarbonate End Cap (PC)	○	○	
U Type Polycarbonate End Cap(Aluminum)		○	○

Application

SKYLIGHT / ROOFING FOR SPORTS

VENUES

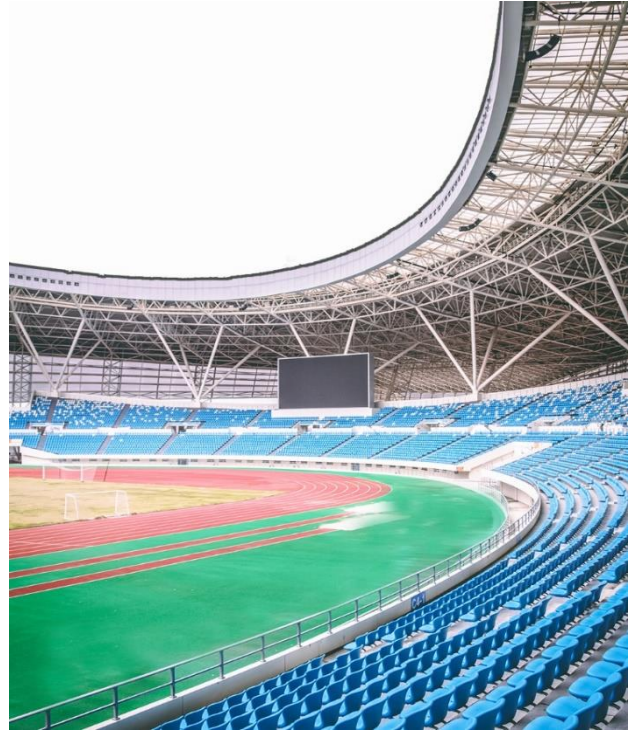
Suitable materials: 18 mm Multi Wall Polycarbonate Sheets;

Surface: Texture, Smooth;

Colors: Red, blue, clear, white, brown, grey;

UV Protective layer: one side or two sides;

Length: ≤ 12 m; Width: ≤ 2.1 m;



GREENHOUSE

Suitable materials: 12 mm Twin Wall Polycarbonate Sheet;

Surface: Smooth;

Colors: Clear;

UV Protective layer: one side;

Length: ≤ 12 m; Width: ≤ 2.1 m;



MINI GREENHOUSE

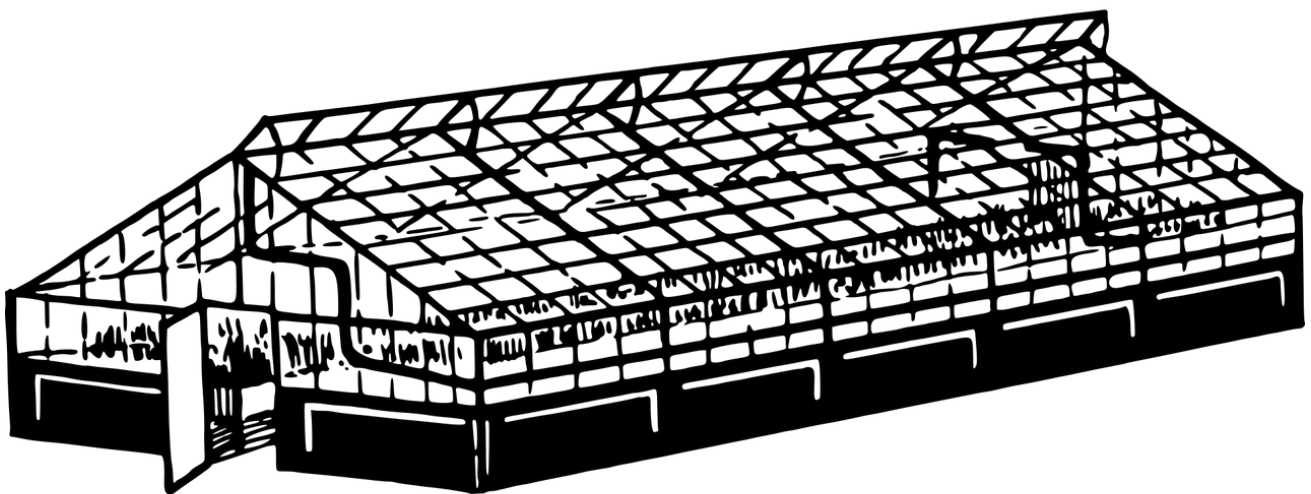
Suitable materials: 4 mm Twin Wall Polycarbonate Sheet;

Surface: Smooth;

Colors: Clear, white, brown, grey;

UV Protective layer: one side or two sides;

Length: ≤ 12 m; Width: ≤ 2.1 m;



COMMERCIAL GREENHOUSE

Suitable materials: 8 mm Twin Wall Polycarbonate Sheet, 10 mm Twin Wall Polycarbonate Sheet, 12 mm Four Wall Polycarbonate Sheet;

Surface: Smooth;

Colors: Clear;

UV Protective layer: one side or two sides;

Length: ≤ 12 m; Width: ≤ 2.1 m;



SKYLIGHT / ROOFING FOR STADIUM

Suitable materials: 14 mm Honeycomb Polycarbonate Sheets;

Colors: Red, blue, clear, white, brown, grey;

UV Protective layer: one side or two sides;

Length: ≤ 12 m; Width: ≤ 2.1 m;



AND MORE...



CONTACT US

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