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# ULTRAPLAST EU

## Application of Multiwall Polycarbonate Sheets

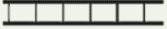




Agriculture: terraces, greenhouses, winter gardens, farms

Construction: stadiums, tennis courts, swimming pools, pavilions, shower cabins and canopies. Glazing of industrial buildings and structures

Advertising and design: outdoor light ads, design of showcases, pavilions and stands



MULTIWALL POLYCARBONATE SHEETS

PRODUCT	THICKNESS mm	STEP mm	WEIGHT kg/m2*	U-VALUE W/m2 K	WIDTH (mm)**			
					2100	1250	1050	980
	4	4,8	0,8	3,9	closed edges		open edges	open edges
	6	4,8	1,3	3,9	closed edges		open edges	open edges
	8	9	1,5	3	closed edges		open edges	open edges
	10	9	1,7	3	closed edges		open edges	open edges
	10	10	1,6	2,2	closed edges		open edges	open edges
	16	10	2,7	1,9	closed edges		open edges	open edges
	20	10	3,0	1,8	closed edges		open edges	open edges
	16	16	2,6	2,30	closed edges		open edges	open edges
	20	16	3,0	2.30	closed edges		open edges	open edges
	16	12	2,8	2,30		closed edges	closed edges	closed edges
	20	12	3,2			closed edges	closed edges	closed edges
	16	16	3,0	1,76	closed edges		open edges	
	20	16	3,2	1,60	closed edges		open edges	
	25	16	3,6	1,40	closed edges		open edges	

\* Available production of nonstandard weight of the material

\*\* Available production of nonstandard width of the material

Main benefits of using Solid Polycarbonate Sheets are high impact resistance, weather and UV Resistance, blocks harmful UV radiation, lightweight, easy to handle and has good acoustical insulation properties and a safe alternative to glass.

**Application of Solid Polycarbonate Sheets**

Providing high impact resistance, solid polycarbonate is the preferred material for use in safety glazing or vandalism protection, protective screening, machine guards and visors, greenhouse glass replacements, picture frames and commonly used for roof domes.



**Solid Polycarbonate Sheets**

THICKNESS RANGE, mm	DENSITY, kg/m <sup>2</sup>	WEIGHT 1m <sup>2</sup> , kg	SHEET NET. WIDTH, mm	SHEET NET.LENGHT, mm	SHEET WEIGHT, kg
0,5	1,2	0,6	1250	2050	1,54
0,6	1,2	0,7	1250	2050	1,85
1	1,2	1,2	1250	2050	3,08
2	1,2	2,4	1250	2050	6,15
2	1,2	2,4	2050	3050	15,01
3	1,2	3,6	2050	3050	22,51
4	1,2	4,8	2050	3050	30,01
5	1,2	6,0	2050	3050	37,52
6	1,2	7,2	2050	3050	45,02
8	1,2	9,6	2050	3050	60,02
10	1,2	12,0	2050	3050	75,03
12	1,2	14,4	2050	3050	90,04

GPPS has characteristics of chemical resistance, low water absorption can be used in humid places and high temperature resistance allows to cut the material into an ideal shape

**Application of GPPS**

Widely used in shower doors, chemical acid storage tanks, lampshades, office equipment, medical peripherals, interior decoration, daily necessities.



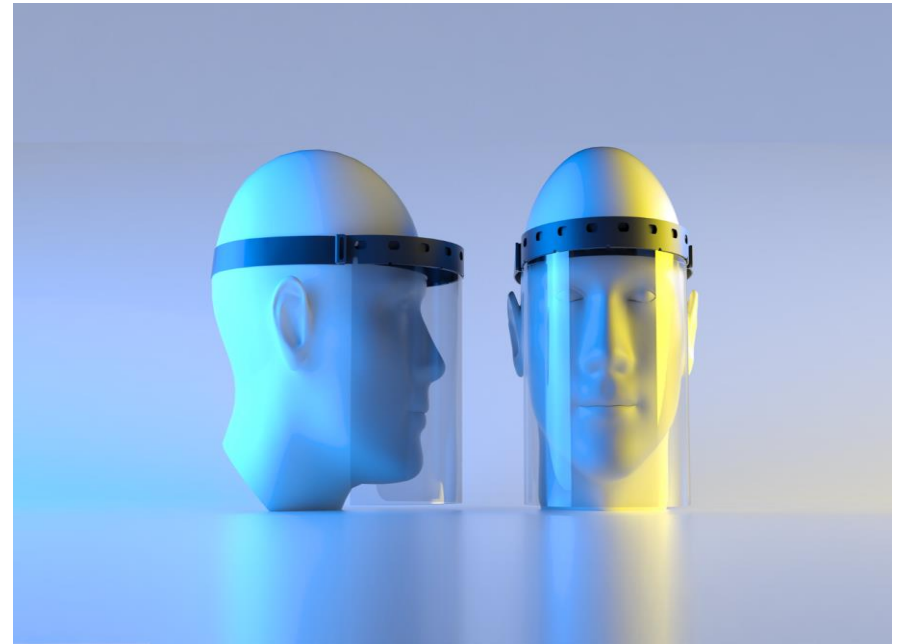
**GPPS Sheets**

THICKNESS RANGE, mm	DENSITY, kg/m <sup>2</sup>	WEIGHT 1m <sup>2</sup> , kg	SHEET NET. Width, mm	SHEET NE. LENGHT mm	SHEET WEIGHT, kg
0,6	1,05	0,6	1250	2050	1,61
1	1,05	1,1	1250	2050	2,69
2	1,05	2,1	1250	2050	5,38
2	1,05	2,1	2050	3050	13,13
3	1,05	3,2	2050	3050	19,70
4	1,05	4,2	2050	3050	26,26
5	1,05	5,3	2050	3050	32,83
6	1,05	6,3	2050	3050	39,39
8	1,05	8,4	2050	3050	52,52
10	1,05	10,5	2050	3050	65,65
12	1,05	12,6	2050	3050	78,78

PETG is both thermoformable and vacuum-formable, and can tolerate a tremendous amount of pressure without cracking. PETG sheets are easy to print or paint on, great for graphics applications making it ideal for advertising and signage industry. It is a versatile material

### Application of PETG

can be used for a number of different applications including glazing, sign making, protective screens thanks to its impact resistance e.g. motorcycle screens and advertisement displays.



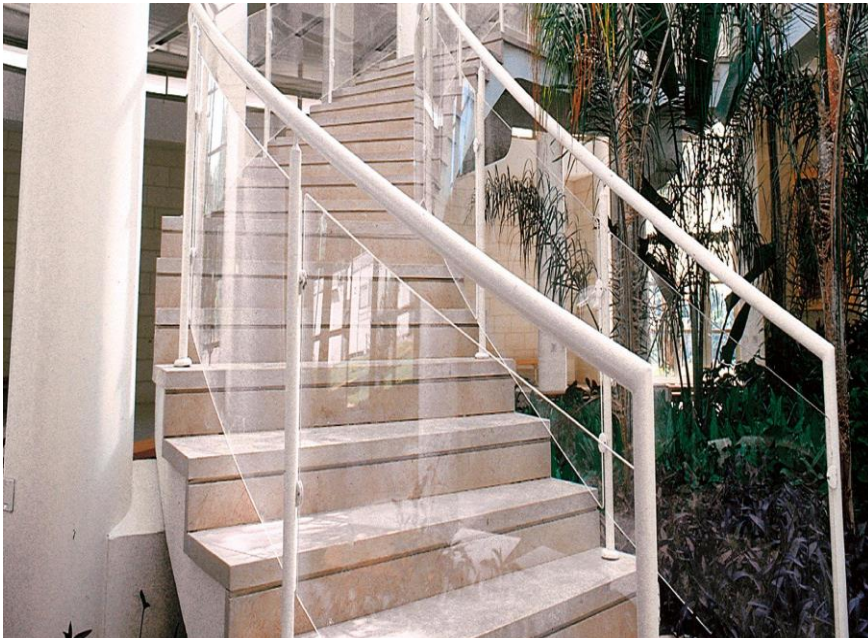


**PETG Sheets**

THICKNESS RANGE, mm	DENSITY, kg/m <sup>2</sup>	WEIGHT 1m <sup>2</sup> , kg	SHEET NET. WIDTH, mm	SHEET NET.LENGHT, mm	SHEET WEIGHT, kg
0,6	1,27	0,8	1250	2050	1,95
1	1,27	1,3	1250	2050	3,25
2	1,27	2,5	1250	2050	6,51
2	1,27	2,5	2050	3050	15,88
3	1,27	3,8	2050	3050	23,82
4	1,27	5,1	2050	3050	31,76
5	1,27	6,4	2050	3050	39,70
6	1,27	7,6	2050	3050	47,64
8	1,27	10,2	2050	3050	63,53
10	1,27	12,7	2050	3050	79,41
12	1,27	15,2	2050	3050	95,29

### Application of PMMA

PMMA or acrylic is a widely used transparent plastic material known for its applications in various markets from car windows, smartphone screens to aquariums. It is a tough plastic, easy to shape and a great alternative to the high cost and less resilient glass. Also, PMMA is less likely to scratch and does not yellow over a period of time. PMMA sheets are also widely used in time of pandemics as shops and pharmacies are also looking at installing the barriers for on a permanent basis.

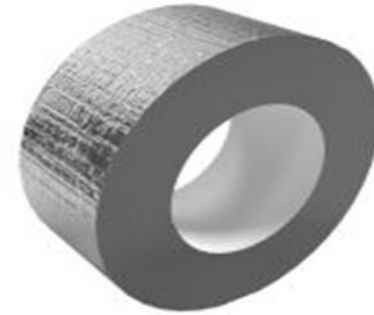
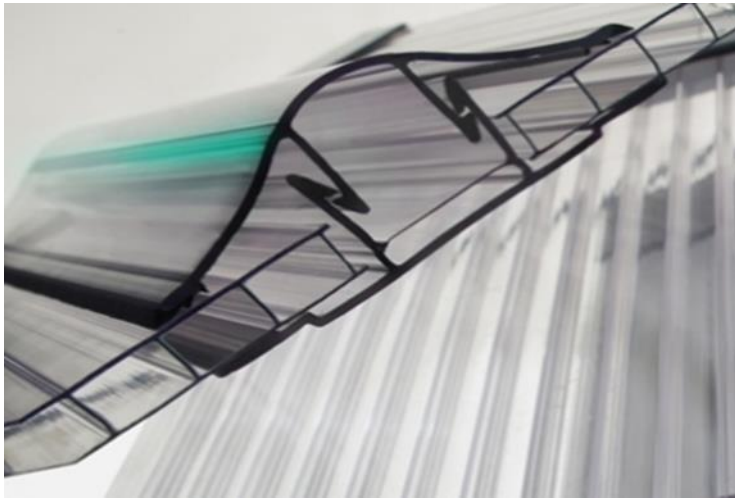


**PMMA Sheets**

THICKNESS RANGE, mm	DENSITY, kg/m <sup>2</sup>	WEIGHT 1m <sup>2</sup> , kg	SHEET NET. WIDTH, mm	SHEET NET. LENGHT, mm	SHEET WEIGHT, kg
0,6	1,19	0,7	1250	2050	1,83
1	1,19	1,2	1250	2050	3,05
2	1,19	2,4	1250	2050	6,10
2	1,19	2,4	2050	3050	14,88
3	1,19	3,6	2050	3050	22,32
4	1,19	4,8	2050	3050	29,76
5	1,19	6,0	2050	3050	37,20
6	1,19	7,1	2050	3050	44,64
8	1,19	9,5	2050	3050	59,52
10	1,19	11,9	2050	3050	74,41
12	1,19	14,3	2050	3050	89,29

Ultraplast EU offer's a range of fixings and accessories to complement its range of Multiwall polycarbonate sheet. There are accessories available like profiles thermowashers and tapes.

For best results always use Ultraplast EU recommended accessories.



All polycarbonate profiles have a special UV-protective layer applied by co-extrusion. Our Polycarbonate profiles have a long service expectancy

### ACCESSORIES FOR INSTALLATION AND FIXING MULTIWALL POLYCARBONATE

NAME OF PRODUCT	PICTURE
<ul style="list-style-type: none"> <li>End profile UP4mm,L=2.1m</li> <li>End profile UP6mm,L=2.1m</li> <li>End profile UP8mm,L=2.1m</li> <li>End profile UP10mm,L=2.1m</li> <li>End profile UP16mm,L=2.1m</li> <li>End profile UP25mm,L=2.1m</li> </ul>	
<ul style="list-style-type: none"> <li>Connective, unsplit profile H4-6mm,L=6m</li> <li>Connective, unsplit profile H8mm,L=6m</li> <li>Connective, unsplit profile H10mm, L=6m</li> <li>Connective, unsplit profile H16mm, L=6m</li> </ul>	
<ul style="list-style-type: none"> <li>Connective, split profile HCP 6-10mm (base),L=6m</li> <li>Connective, split profile HCP 6-10mm (cover),L=6m</li> <li>Connective, split profile HCP 16mm (base),L=6m</li> <li>Connective, split profile HCP 25mm (base),L=6m</li> <li>Connective, split profile HCP 16-25mm (cover),L=6m</li> </ul>	

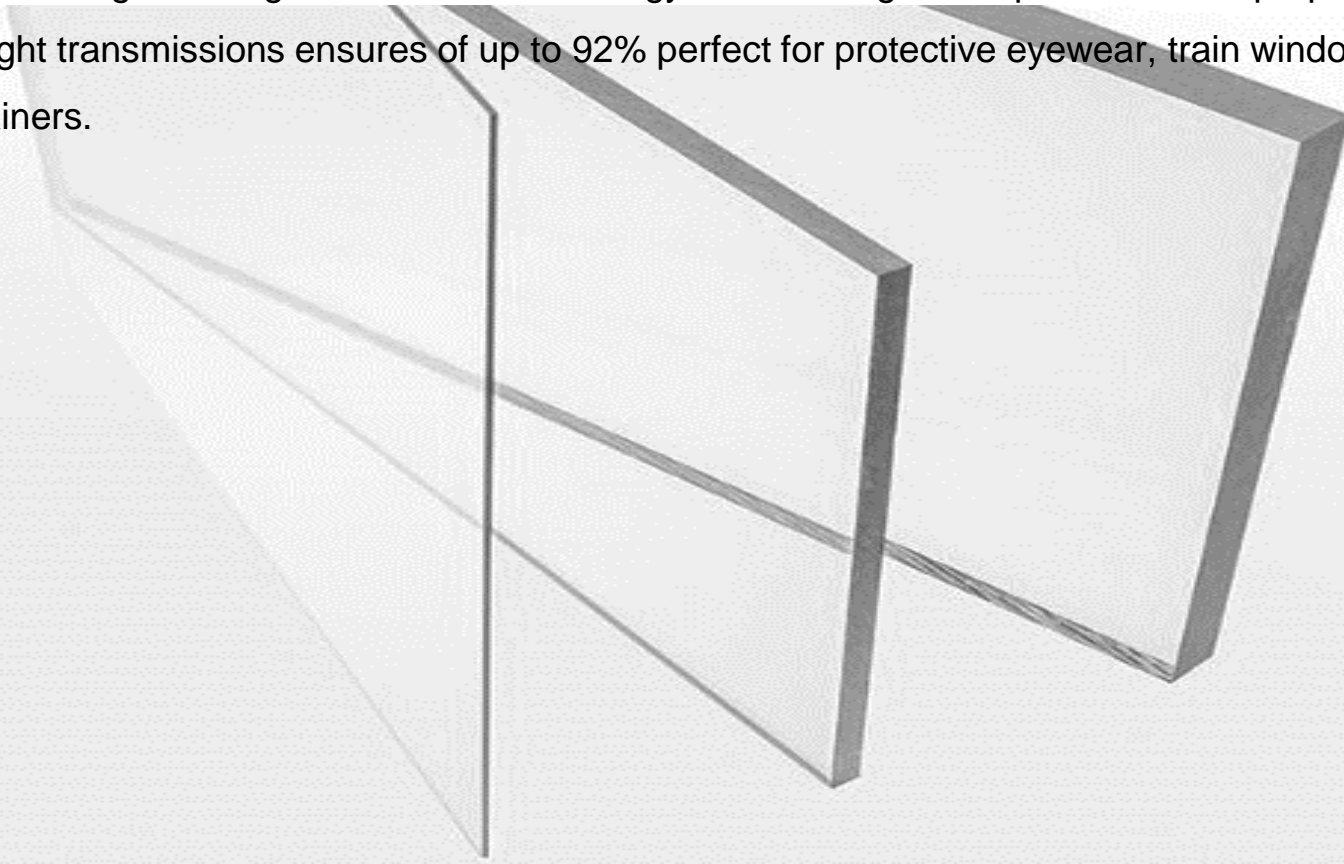
All polycarbonate profiles have a special UV-protective layer applied by co-extrusion. Our Polycarbonate profiles have a long service expectancy

ACCESSORIES FOR INSTALLATION AND FIXING MULTIWALL POLYCARBONATE

NAME OF PRODUCT	PICTURE
Line trim profile FP 4-6 mm, L=6m Line trim profile FP 8-10mm,L=6m	
Ridged profile RP 4-6mm, L=6m Ridged profile RP 8-10mm,L=6m	
Angle profile FCP 4-6mm, L=6m Angle profile FCP 8-10mm, L=6m	
Thermowasher in assortment	

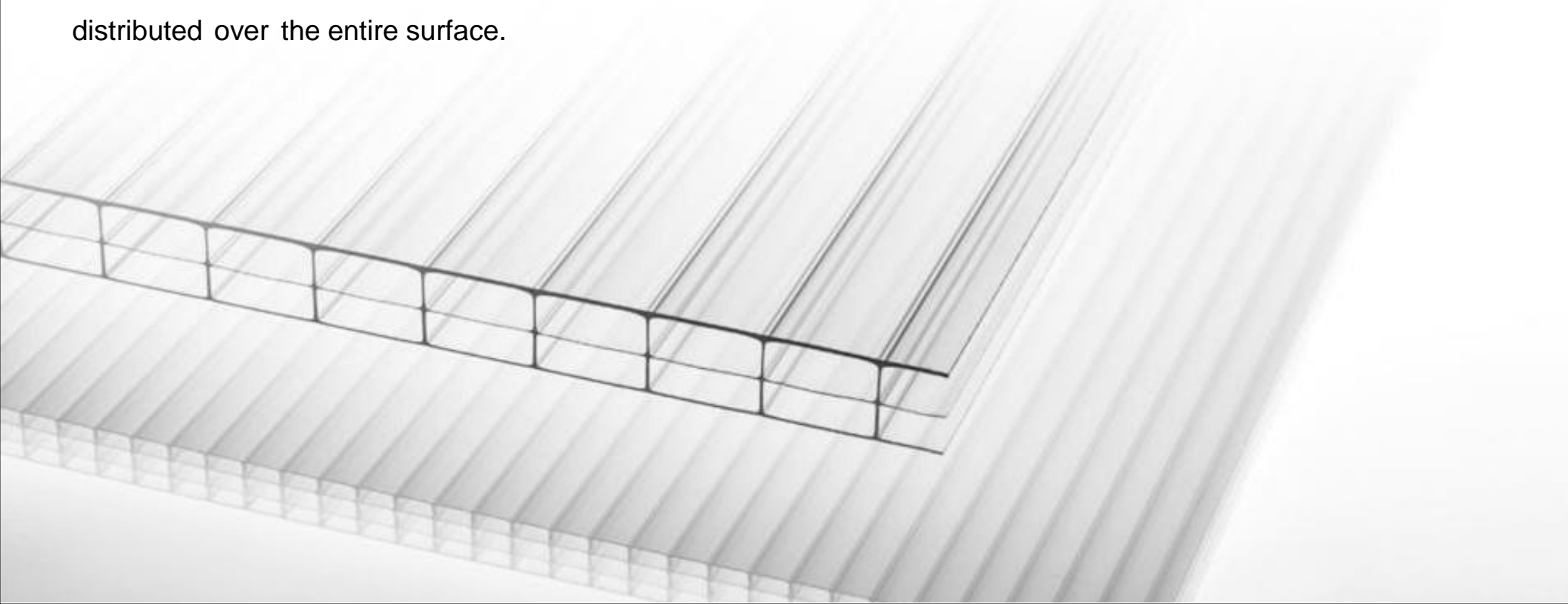
Ultraplast flat sheets provide great material properties like impact resistance, its multiple times tougher than glass that will protect against breakage and shattering at the same time the lightweight will makes it easy to handle and install. Sheets can be easy fabricated as they can be cold curved.

Some more advantages over glass are reduced energy costs through its superior thermal properties and UV resistance. Light transmissions ensures of up to 92% perfect for protective eyewear, train windows and even food storage containers.



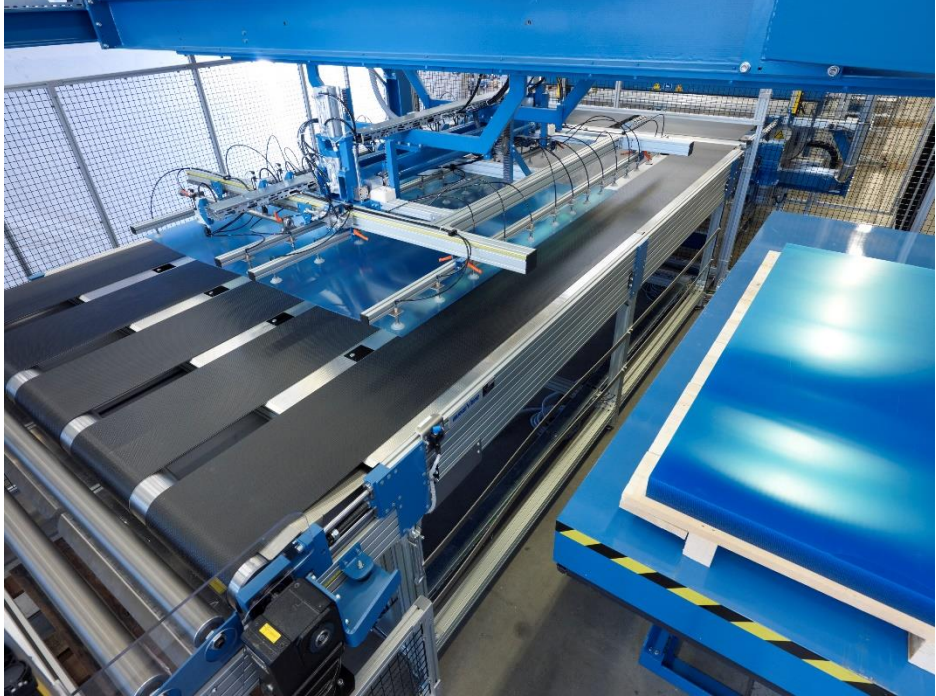
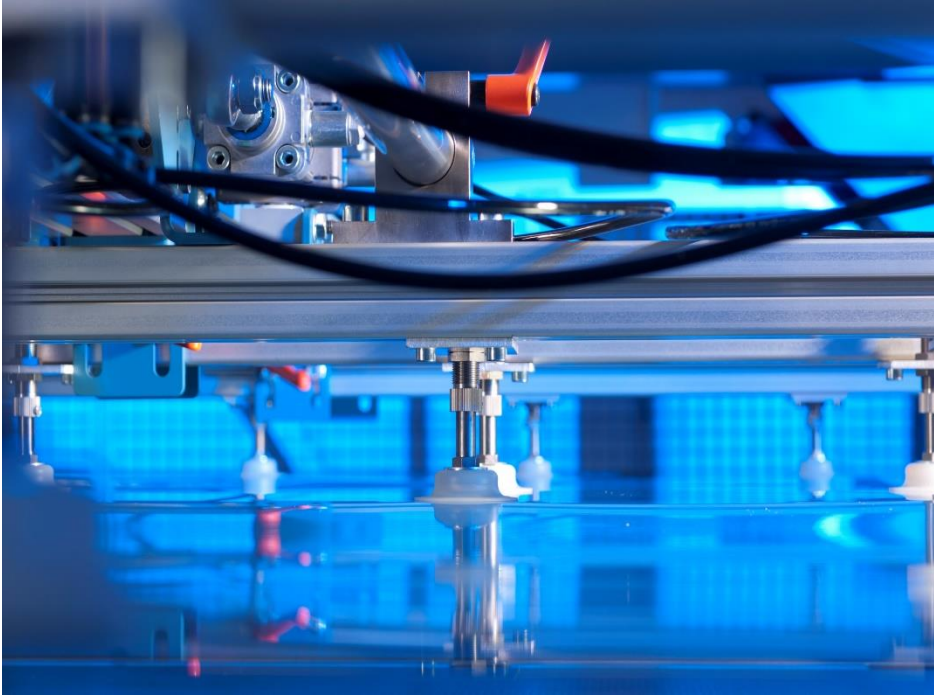
In the course of manufacture, Ultraplast polycarbonate is covered with a UV protection layer using the co-extrusion technology. Exposure to UV solar radiation leads to premature aging of building materials, i.e. yellowing, loss of light transmission ability and impact resistance.

The protective layer filters UV radiation. Its quality is constantly checked during manufacture. Ultraplast polycarbonate is manufactured on the most advanced equipment, ensuring that protective layer is uniformly distributed over the entire surface.













**SAFETY.** During installation of Ultraplast products, all measures must be taken to ensure safe working conditions. Never step on the product during installation or use. When lifting products to the roof, use wide belts to properly distribute the load.



**SAWING.** Ultraplast products can be sawn using standard equipment. Special saw blades with fine teeth for plastic products are recommended. Protective film should be left on the product during sawing to prevent scratches. The cut should be clean and free from dents. Channels must be cleaned from dust with compressed air and sealed again. Hot-cutting is recommended to prevent dusting.



**DRILLING.** Holes are drilled between ribs; holes can be drilled with a manual or automatic drill, using drill bits for plastic or metal. When drilling, a support must be placed under the drill in order to avoid vibration. The use of cooling agents is not recommended. During installation, it is necessary to provide for thermal expansion gaps, not less than 2.5 mm per meter of length and width for an uncolored sheet and up to 4 mm for colored one. Denting should be avoided when drilling.



**TRANSPORTATION.** Polycarbonate sheets should be transported on a flat, horizontal surface, free from sharp protruding parts and foreign objects. Sheets should be stacked one on one, the height of stack must not exceed two meters. The stack is tied to the car body with at least two tie bands in length and two in width. The protective film protects the surface of products from scratches, and should be removed only immediately before installation.



**STORAGE.** The sheets are stored in covered storage areas, away from direct sunlight. Store at temperatures between 5 and 40°C, within at least 1 m from heating appliances. When stored outdoors, the sheets must be protected from sunlight, dust and dirt with non-transparent material (film of preferably white color, cardboard, wooden cover, etc.). Twisting/rolling the sheets for storage is not recommended.