



HAN  
POLIKARBON

2022

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HAN POLIKARBON

| Flat Sheet

| Trapezoidal Sheet

| Inter-panel Sheet

# Who we are!

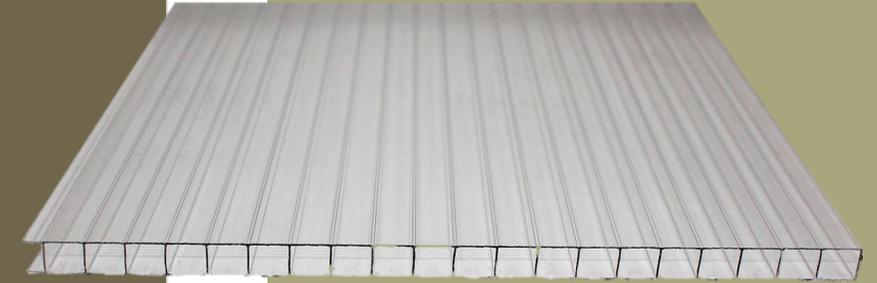
As HAN POLIKARBON, we make flat, trapezoidal and inter-panel sheet applications. We are striving to provide service to our customers with our growing, professional and skilled staffs in the polycarbonate sector as it impowers us being a reliable and trusted project solution partner to investors.



# Flat Sheet

The light transmittance is close to glass; They are transparent plastic materials resistant to heat, chemicals and other factors. It provides more durability and heat density than glass and nylon. It is protective against UV rays.

- Long-term resistance to yellowing with single or double-sided UV protection \*Lighter than glass
- Sound insulation
- Easy assembly
- Fire resistance
- Climate resistant



## Available Colors:

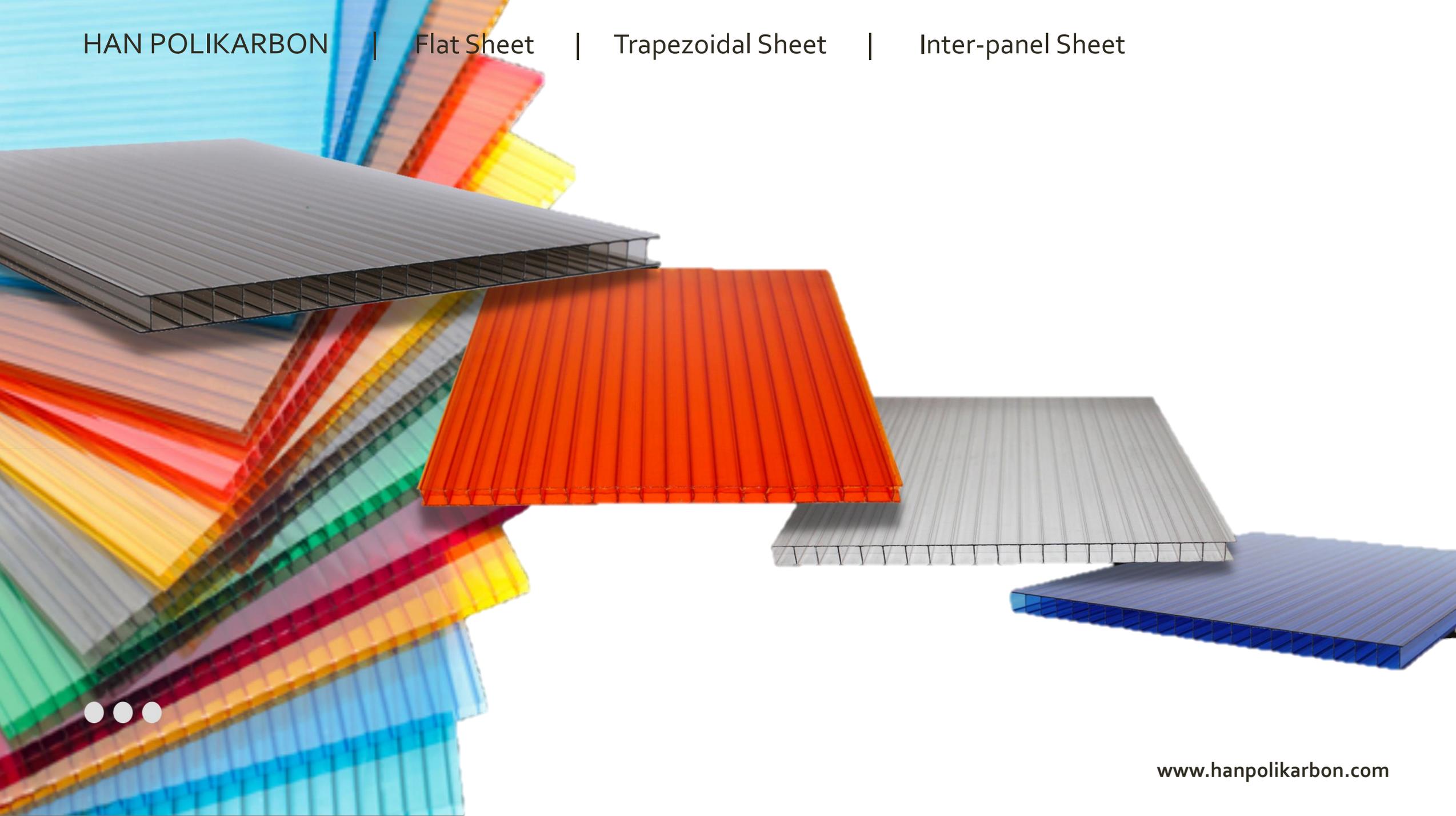
TRANSPARENT  
MN101036 TR.GRAY  
MN800065 TR.WHITE  
MN700617 TR.BRONZE(BROWN)  
MN401199 EN.RED  
MN800711 WHITE  
MN601899 TR.BLUE  
MN502081 TR.GREEN

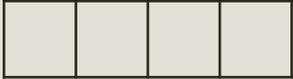
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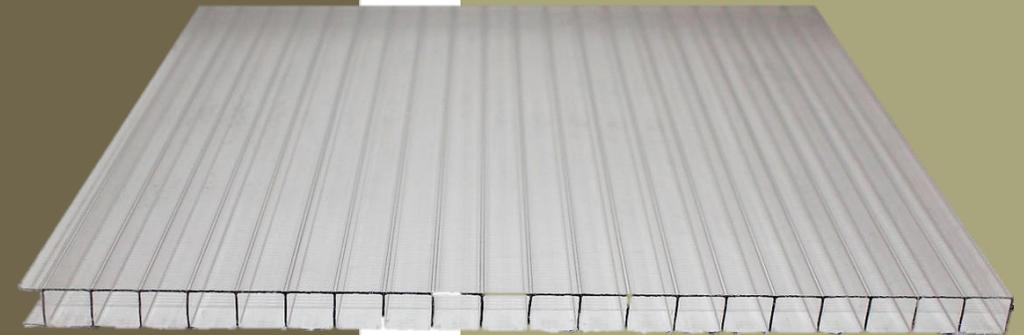
Shape	Thickness (mm)	Weight (gr)	Standard Length (cm)	Standard Width (cm)	Minimum Cold Bend Diameter (mm)
	4	800	600/580	210/122	700
	6	1250	600/580	210/122	1050
	8	1450	600/580	210/122	1400
	10	1650	600/580	210/122	2300
	16	2600	600/580	210/122	2800

## a. Temperature

Flat sheet multilayer polycarbonate can be used at varying temperatures. However, it is known that the mechanical performance of the material remains stable at temperatures from  $-40^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$  in long-term use.

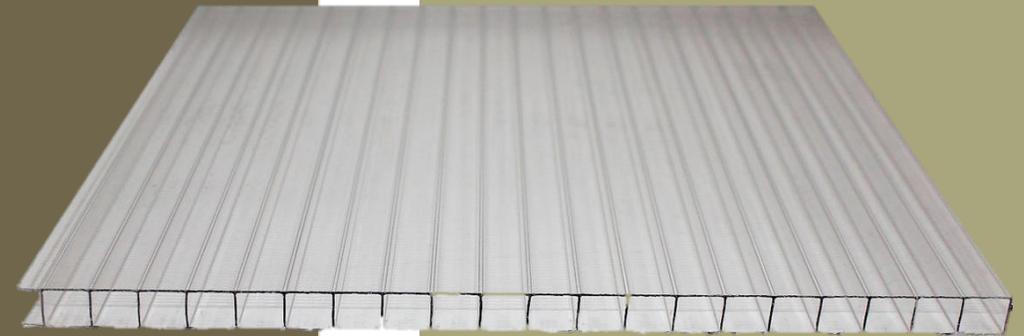
## b. Thermal Expansion

The linear expansion coefficient of the polycarbonate material is  $6.7 \times 10^{-5} \text{ m/m } ^{\circ}\text{C}$ . This means that at a delta of  $500^{\circ}\text{C}$ , the thermal expansion of the plate per linear meter is about 3 mm.



## c. Usage

- Tents in stadiums and bus stops
- Lighting in corridors, passages and subway entrances
- Bank ATMs
- Tents for greenhouses and zoos.
- Polycarbonate sheets used for building and decoration materials, greenhouse materials and insulation material blocks
- Walls and roofs of greenhouses, department stores, show centers and telephone booths, insulation shield of intercity roads and highways
- Office buildings, hotels, villas, stadiums, schools, bus stops, terminals, hospitals, subway entrances and exits, etc.



## d. Protection against UV Rays

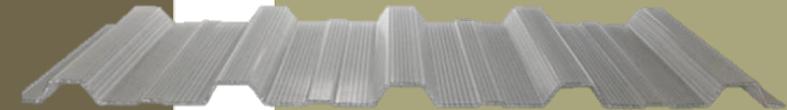
Radiation from the sun contains a harmful component, including UV rays, which cause degradation of many polymer materials such as polycarbonate. Polycarbonate sheets feature a long-term stability against harmful UV rays, protecting against external weather conditions, protecting light transmission, especially extruded UV absorption and protection layer. Uses in closed structures such as sun lounges and indoor swimming pools can be given as a few examples of thermal insulation.



# Trapezoidal Sheet

It is a multi-layered polycarbonate consisting of a UV protected modular panel used in transparent roofs.

- Long-term resistance to yellowing with single or double-sided UV protection \*Lighter than glass
- Easy and fast installation
- High resistance power
- Suitable for long-term weather conditions
- UV protected
- High light transmittance and light diffusion.



Trapeze Form

27/200

Transparent

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| Flat Sheet

| Trapezoidal Sheet

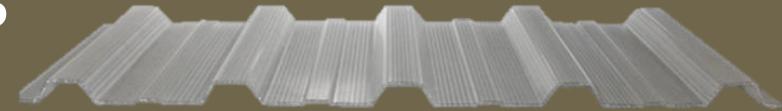
| Inter-panel Sheet

Shape	Thickness	Length	Width
27/200	4 - 5 - 6	800/900mm +/-5	Min. 2,000mm Max. proje boyu

## a. Usage

- Roof skylights
- Winter gardens
- Entrance fringes
- Terraces and verandas
- Greenhouses
- Transit tunnels between buildings
- Swimming Pools
- Stair and balcony railings
- Stadiums
- Parking lot, bus stops
- Billboards
- Banks and office, building entrances and exits
- Factory lights
- Pedestrian overpasses

## b. Features



- Excellent thermal insulation
- Easy to shape such as hot and cold bending
- Break resistance (200 times more resistant than glass, 6 times more resistant than acrylic sheet)
- Resistance to natural conditions, up to 90% light transmittance
- Possibility to work between -40, +115 °C temperatures
- Ease of processing, storage, use and assembly
- Sound insulation
- Surface water retention

# Inter-panel Sheet

They are transparent plastic materials with light transmittance close to glass, resistant to heat, chemicals and other factors. They provide more durability and heat density than glass and nylon. They are protected against UV rays.

With its 6-walled structure, it provides high thermal insulation, durability and UV protection. Thanks to its superior production technology, it can be produced in different thicknesses.

Because of UV protection yellowing is Guaranteed. It is produced transparent according to the appropriate light requirement.



- UV protected
- Long-term weather resistance
- High degree of hardness
- Easy and fast installation
- Good light transmission and light diffusion properties



Thickness	Shape	Color	Light Transmittance %	Light Emitting G-Value%	Heat Conduction Coefficient W/m <sup>2</sup> *K
30 mm	6 Walled	Transparent	59/30	64/47	1,35

## a. Resistance

This material, which is used in industrial roof lighting, can respond to different expansions along the roof slope due to its high performance.

## b. Ease of installation

This material, which is produced for all types of roof sandwich panels, can be easily mounted between two sandwich panels due to its support-free profile system.

## c. Energy Saving

Thanks to its natural lighting feature, you can save high energy in the area where it is used.



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**HAN**  
POLİKARBON A.Ş.

**HAN POLİKARBON İNŞAAT SANAYİ VE  
TİCARET ANONİM ŞİRKETİ**

MERKEZ: SARAY MAH. 646 CAD. NO:26 KAHRAMANKAZAN/ANKARA/TÜRKİYE  
ŞUBE: BÜĞDÜZ MAH. ENVER PAŞA CAD. NO : 9A AKYURT/ANKARA/TÜRKİYE

**ISO 9001:2015**

Kapsam/Scope  
POLİKARBON OLUKLU LEVHA, POLİKARBON TRAPEZ LEVHA, POLİKARBON PANEL TASARIM VE ÜRETİMİ

DESIGN AND PRODUCTION OF POLYCARBONATE CORRUGATED SHEET, POLYCARBONATE CORRUGATED SHEET, POLYCARBONATE TRAPEZOIDAL SHEET, POLYCARBONATE PANEL

Bu sertifika ile yukarıda adı geçen kuruluşun Kalite Yönetim Sistemi gerekliliklerini karşıladığı tasdik olunur.  
This is to certify that the above mentioned Company meets the requirement of Quality Management System.

Belge NO / Certification Number : MTS-27355  
İlk Kayıt Tarihi / Date of Initial Reg. : 17.11.2022  
Başım Tarihi / Date of Certificate : 17.11.2022  
Geçerlilik Tarihi / Date of Expiry : 16.11.2023

Bu sertifika kuruluşun belgelendirme şartlarına uygun ve yılda en az 1 kez yapılacak olan güncellenmelerini başarıyla geçmesi halinde, üç yıl süreyle sertifikasyon periyodu bity tutulur. Kadar geçerlidir.  
This certificate is valid until the end of the three-year certification period if the organization complies with the certification requirements and the surveillance audits to be carried out at least once a year are completed successfully.

**IAF** **IAS**  
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This is to certify that the above mentioned Company meets the requirement of Environmental Management System.

Belge NO / Certification Number : MTS-27356  
İlk Kayıt Tarihi / Date of Initial Reg. : 17.11.2022  
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Geçerlilik Tarihi / Date of Expiry : 16.11.2023

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**ISO 45001:2018**

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This is to certify that the above mentioned Company meets the requirement of Occupational Health & Safety Management System.

Belge NO / Certification Number : MTS-27357  
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