

THE BEST SOLUTIONS FOR COVERINGS AND CONSTRUCTION APPLICATIONS

Polycarbonate Twinwall Sheets
Polycarbonate Profiles & Connectors
PVC Ribbed & Corrugated Panels





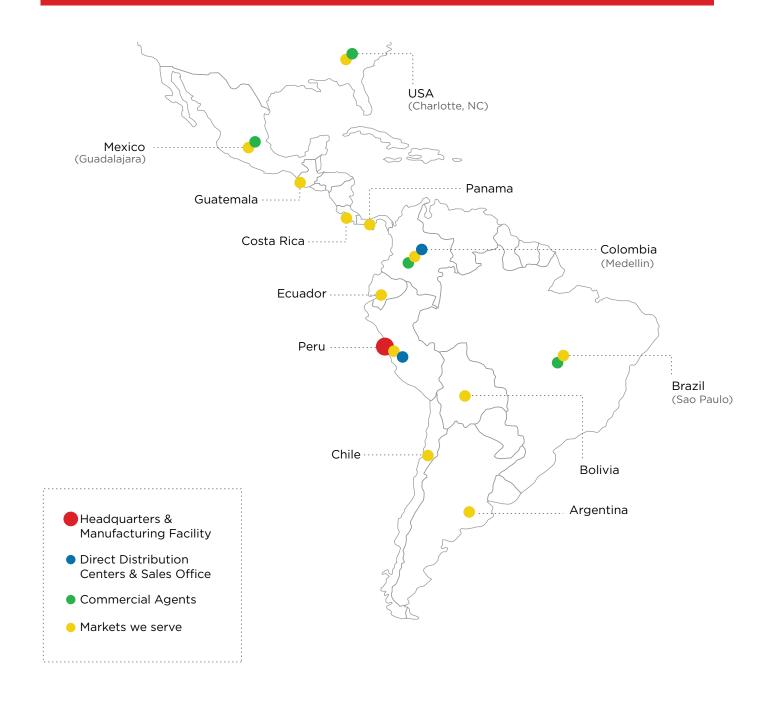
ABOUT US

Klar is a reliable, leading manufacturer, regional distributor, and experienced exporter of superior thermoplastic products for architectural, industrial, commercial, agricultural, and DIY construction projects. We are committed to the highest quality standards and product innovation as well as an excellent US-based customer service so you can rely on a rapid response, logistics management and short lead times.

Our brands are synonymous of superior quality, durability, sustainability, and value in all the markets and countries we serve.



INTERNATIONAL PRESENCE



SUCCESS FACTORS

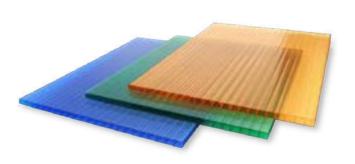
SUPERIOR QUALITY PRODUCTS AND EXCELLENT CUSTOMER SERVICE

PRIME MATERIALS, STATE-OF-THE-ART TECHNOLOGY
& QUALITY CONTROLS

INTERNATIONAL REACH

POLYCARBONATE TWINWALL SHEETS

When we plan our projects, we want them to last. We know extreme climates can be very damaging, so our sheets were designed and manufactured with prime materials to overcome challenging environments. Klar combines 100% virgin resin, top quality colorants and UV co-extruded coating that acts against solar radiation and prevents it from accelerated aging. Our advanced technology provides great impact resistance, thermal insulation, excellent light transmission while keeping its flexibility for customized cutting and cold curving.



PROPERTIES

- UV Protection
- 10-year warranty
- High impact (hall) and aging resistant (yellowness)
- Weather resistant
- Fire resistant
- Thermo-insulator
- Flexible for cold forming
- Excellent transparency for sunlight transmission
- Also available with Antifog / Anticondensation for Greenhouse & Agricultural applications







APPLICATIONS AND USES

KLAR Polycarbonate twinwall sheets are used as coverings in greenhouses, edifications and warehouses, horizontal and vertical enclosures, coliseums, malls, industrial and commercial buildings, and residential applications that require natural illumination.



Greenhouses & Agricultural



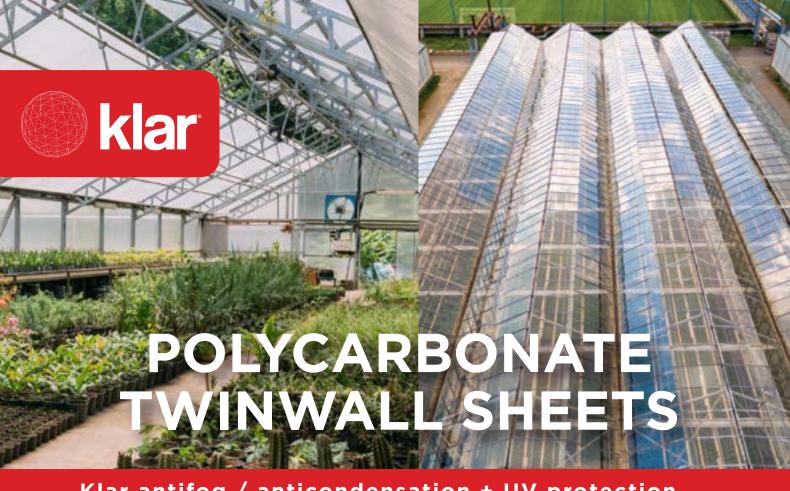
Industrial & Commercial



Home improvement & DIY



Decorative & Interiors



Klar antifog / anticondensation + UV protection







BENEFITS



Excellent light transmission



Higher crop yields and plant quality results



Healthier & more productive growing environment



Fewer diseases and reduced drip damage

PRIMARY APPLICATIONS

Commercial greenhouses Retail garden centers

Residential greenhouses



PRESENTATIONS AND TECHNICAL PROPERTIES

Thickness	Width		Length		
Millimeters	Feet	Inches	Feet	Inches	
4, 6, 8, 10	4	48	8	96	
	6	72	10	120	
	6.89	82.68	12	144	
			16	192	
			24	288	
			36	432	

Note: For other measurements please contact with your sales representative.

KLAR PHYSICAL AND CHEMICAL PROPERTIES

Physical & Mechanical Properties	Unit	Test Method	Thickness in mm			
			4	6	8	10
Resistance to impact	J/m	ASTM D5628	770	790	830	900
Module of flection*	Мра	ASTM D790	22,000			
Resistance to traction*	N/mm²	ASTM D638	640			
Flammability	Classification	ASTM D-635	CC - 1			
K thermal conductivity	W/m²k	ISO 10077	4	4	3	3
Accelerated aging (QUV)	Years	ASTM G154	10			
Acoustic isolation	dB	DIN 52210	15	17	18	19
Minimum curvature radius	m	STD	0.750	1.000	1.250	1.500
Dimension	m	STD	± 0.01*			

^{*} Tolerance ±0.01 depending on the thickness



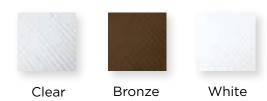
KLAR OPTICAL PROPERTIES

Product Code	Color	Shadow Coefficient (SC) ⁽¹⁾	Solar Heat Gain Coefficient (SHGC) ⁽²⁾	Lig	Light Transmission % (LT) ⁽³⁾ ASTM D-1003		
				4	6	8	10
K01TRANS	Clear	0.86	0.75	80	80	79	79
K02BLHT	White	0.60	0.52	25	24	23	21
K06BRON	Bronze	0.57	0.50	19	19	18	18
K05GHO	Smoke Gray	0.70	0.61	40	40	39	38
K07CELT	Light Blue	0.54	0.62	20	20	19	19
K08AZUL	Blue	0.80	0.70	26	25	24	24
K09ANAJ	Orange	0.78	0.68	55	55	54	54
K10AMAR	Yellow	0.80	0.70	78	78	77	77
K11ROJO	Red	0.72	0.63	16	16	15	15
K12TURQ	Turquoise	0.71	0.62	52	52	51	51
EL01GRRF	Reflective Gray	0.46	0.40	11	10	9	9
K13VERD	Green	068	0.59	30	30	29	29

*For other colors, please consult with manufacturer

COLORS

BASIC COLORS



SPECIAL COLORS



REFLECTIVE COLORS



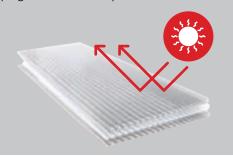
⁽¹⁾ SC (Shadow coefficient): Amount of sun heat transmitted through a window compared to a standard single glass 1/8 inch-width window under the same conditions. (2) SHGC (Solar Heat Gain Coefficient): Percentage of solar radiation incident transmitted through an object that comprises a direct solar transmission and the part that solar radiation irradiates towards inside. (3) LT (Light transmission): Percentage of incident visible light that passes through an object.



SPECIALTIES

KLAREFLECT® Reflective:

Our polycarbonate twinwall sheets with Klareflect* technology are suitable for warmer climates where excess of heat is quite a challenge. Klareflect* provides an effective solar heat control by reflecting sunlight away while keeping the internal temperature at low.



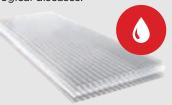
KLAR SMART® IR Solar control IR:

Klarsmart* IR technology is applied to our polycarbonate twinwall sheets to block undesirable near-infrared (IR) radiation permitting the highest levels of light transmission while avoiding interior heat buildup on surrounding objects and, thus, achieving energy efficiency.



KLARIFOG® Antifog/anticondensation:

Our polycarbonate twinwall sheets with Klarifog® technology are designed for Greenhouse and other Agricultural applications where natural light transmission must be maximized for photosynthesis. Klarifog® effectively reduces droplets formation to a minimum while blocking harmful UV rays and excessive heat to obtain best crop efficiency and fewer biological diseases.



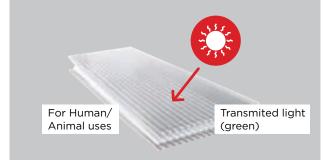
STYLISH KLAR® Pearldshade:

We recommend a selection of Stylish Klar* polycarbonate twinwall sheets for stylish, decorative applications where a sophisticated and refined look is desired. Our Stylish Klar* sheets provide elegance and style while keeping outstanding reflective qualities and light selectivity features.



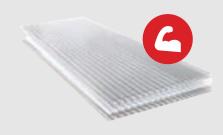
KLAR® VISUAL COMFORT Optical effects visual pleasing:

Klar® Visual Comfort technology provides a pleasing effect to the eyesight by reflecting selectively most of the near-IR solar radiation and transmitting a more visible, comfortable light.



FIBER KLAR® Fiber glass:

Fiber Klar* sheets are ideal for interior designs and have the same optical and mechanical properties as our standard polycarbonate twinwall sheets, but with an improved abrasion resistance component obtained from fiber glass additives.



POLYCARBONATE PROFILES & CONNECTORS

PRODUCT DESCRIPTION AND CHARACTERISTICS

Klar's polycarbonate profiles and connectors are made with 100% virgin resin to meet the highest quality standards in the market. Our state-of-the-art technology allows for precision and flexibility to achieve a clean, professional finish when connecting panels together and sealing the ends securely.

Characteristics:

- UV protection
- Cold bending
- Easy installation
- Lightweight













CONNECTOR

H-shaped profile

USE

Polycarbonate Sheet Thickness 4, 6, 8, 10mm

DESCRIPTION

One-piece, lightweight and ideal for quick installations.

CONNECTOR

Bottom & Cap connectors

USE

Polycarbonate Sheet Thickness 4, 6, 8, 10mm

DESCRIPTION

Its main function is to connect sheets together without the need to pierce them and offering a firm and secure installation. It is used in flat and curved installations. It significantly reduces the installation time.

PROFILE

U-shaped

USE

Polycarbonate Sheet Thickness 4, 6, 8, 10mm

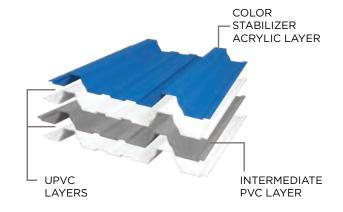
DESCRIPTION

Avoids the entry of undesirable agents such as water, dust or insects. It is placed at the endings of the sheet, over the aluminum tape to ensure a correct installation.

PVC RIBBED & CORRUGATED PANELS

THERMOACOUSTIC MULTILAYER TECHNOLOGY

Our PVC Ribbed Corrugated panels serve as better alternative to metal corrugated and fiber-cement roofing panels. They are six times better than conventional roofing because they reduce noise; do not rust; do not generate fungus; protect us from cold, heat and humidity; It's safe to install and easy to maintain; they are resistant to fire and have up to 20 years of lifetime.



BENEFITS



20-YEAR



- Raw materials of the highest quality.
- Durability and resistance.
- UV protection.





- Ideal for areas near the sea and humidity.
- Great resistance to different types of corrosion: Saline, microbiological and chemical.



FIRE RESISTANT



- B1 Classification B1, not combustible. (DIN 4102 standard, Euroclass validation).
- Does not spread fire.
- Does not drip.



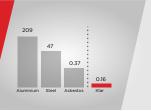
SAFE & EASY



• It's easy to cut and does not need to be heated.







• Klar's PVC Ribbed & Corrugated panels have better thermo insulation performance over metal roofing.



ACOUSTIC REDUCTION



• Great acoustic performance over metal roofing. Reduces noise up to 12 decibels.





• Only requires water and soap

USES

Most benefited applications include roofing & siding for:



Residential



Small & Mobile Buildings



Port & Distribution Warehousing



Farms applications



Manufacturing Facilities



Commercial & Municipal applications



Agro-industrial Facilities









BENEFITS



Great absorption of noise and vibrations



Electric insulation or low conductivity



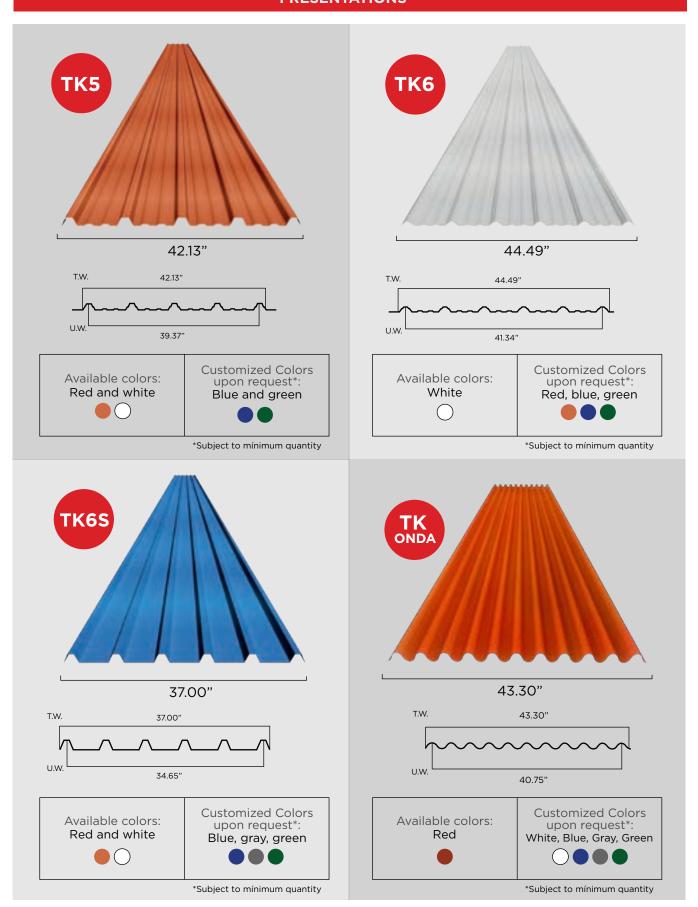
Great chemical resistance



Excellent resistance to corrosion and thermal insulation



PRESENTATIONS



*UW: Usable Width / TW: Total Widht

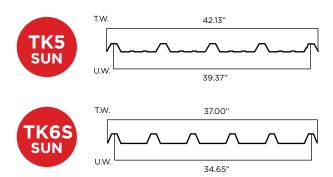
Thickness in mm: 1.5 mm / 2 mm / 2.5 mm



ACCESORIES

Translucent panels:

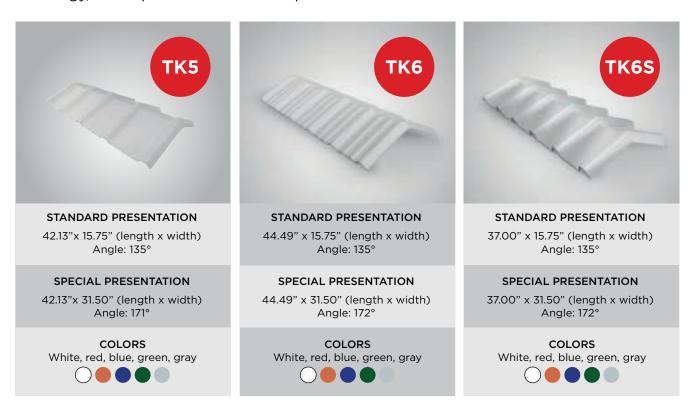
Klar translucent coverings are monolithic, manufactured with the highest extrusion technology that presents an excellent resistance to diverse and extreme climates. They are nonflammable and also have UV protection ensuring a long useful life. They are an effective solution for illumination, transparency and resistance.



*UW: Usable Width / TW: Total Widht

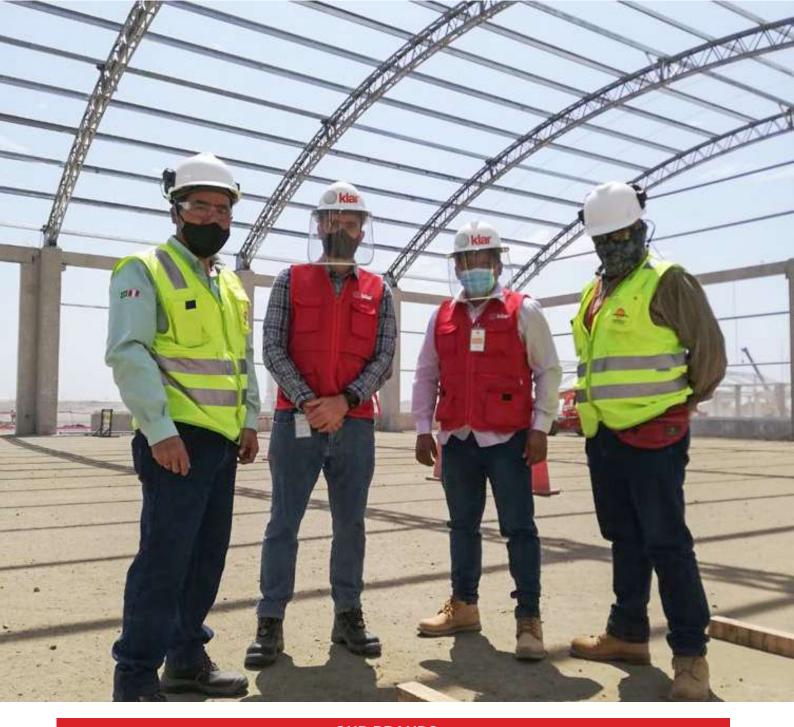
Ridges:

Klar's PVC ridge cappings are manufactured with the most advanced co-extrusion, multilayer technology, which provides excellent impact and extreme weather resistance.



Fitting sets (fasteners):





OUR BRANDS





Polycarbonate Profiles & Connectors



Polycarbonate Profiles & Connectors



PVC Ribbed & Corrugated Panels





Lima, Perú

CONTACT

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Advice is provided and orders accepted in accordance with the terms of our current General Sales and Supply Contract. Users should be aware of and use the latest and updated version of the product data sheet concerned, of which they will be sent to whom the request.

For more information, please consult our technical department or consult our corresponding technical sheets on our website: www.klar.com.pe

