

Clear Polycarbonate Sheets (PC sheets)

Our Clear Solid Polycarbonate Sheets are crafted from prime quality virgin raw materials sourced from top-tier suppliers in Europe and Saudi Arabia.

Ranges of Polycarbonate sheets

- Solid Polycarbonate Sheet
- Embossed/Textured polycarbonate Sheet
- Crystal Polycarbonate Sheet
- Polycarbonate antiglare (AG Sheet)
- All of the above are available in an extensive range of colors. Custom colors are possible based on meeting our MOQ levels

Applications of Polycarbonate sheets

1. Construction Industry

- Partition walls
- Door glazing
- Roofing
- Skylights for caravans
- Solariums
- Sound barrier walls
- Sunshade for stadiums and bus stations, gazebo, carport, canopy for corridors and subway entries
- Flashing for roofs, bank ATMs and gateways
- · Agricultural greenhouse roofing and walls
- Soundproof partitions, Glazing windows and gates

2. Advertisement and Signage industry

- Moulded letters
- Store displays
- Shop fittings
- Illuminated graphic panels
- Lettering templates
- Photo quality flatbed printing

3. Engineering Components

- Machine housing
- Machine safety covers
- Other Applications

Features of Polycarbonate sheets

- Impact strength: The impact strength of solid PC sheets is 200 times that of glass
- Lightweight: The weight of a solid PC sheet is only about half of the glass
- Transparency: The light transmission of the PC sheet is 80-90 %(clear), for different thicknesses
- UV-protection: Our PC sheets are manufactured using UV-stabilized PC resin that keeps the PC sheet from discoloring. Our state-of-the-art machines can co-extrude up to 50 microns of UV coating on both sides of our Polycarbonate sheets to further enhance its UV-resistant properties
- Resistance to weather: A PC sheet has resistance to bad weather and maintains excellent properties in a wide temperature range (from -40 to 120°C)

- Thermal insulation: The K-value of glass is 1.2 times that of a solid PC sheet. So PC Sheets have much lesser heat conductivity than glass and are very useful for insulation.
- Easy installation: A PC sheet can be bent while hot or cold and used on curved roofs, domes, and windows. The minimum radius of curvature of a PC sheet is 175 times its thickness.

Description	Thickness (mm)	Width(mm) X Length(mm)	
PC solid sheet	1 -1.5	1220 (max)	
PC solid sheet	1.5 - 12.0	2100(max)	
PC embossed sheet	1.7- 12.0	2100(max)	
PC crystal sheet	2.5 - 12.0	2100 (max)	
PC antiglare sheet	1.5 - 12.0	2100(max)	
PC prismatic sheet	2.8 – 4.0	1220 (max) < 2.8mm; >2.8mm - 2050 (max)	
PC Rolls (coreless)	1.0 – 4.0	1220 (max) <1.5mm; >1.5mm – 2050 (max) Max length 30 Mtr	

Properties

Property	Standard	Unit	Value
Physical			
Density	ASTM D792	g/cm	1.2
Water Absorption, Equilibrium, 24 Hrs	ASTM D570	%	0.15
Refractive Index	ASTM D542		1.59
Light Transmission	ASTM D1003	%	88
Mechanical			
Rockwell Hardness	ASTM D785		95
Izod Impact Strength (Notched)	ASTM D256	kg -cm/cm	88
Tensile Strength	ASTM D638	kg/cm 2	620
Tensile Modulus	ASTM D638	Мра	2400
Flexural Strength	ASTM D790	kg/cm 2	850 -950
Flexural Modulus	ASTM D790	Мра	2400
Elongtional break	ASTM D638	%	110
Thermal			
Co-efficient of expansion	ASTM D696	cm/cm – oC	6.8x10-5
Heat deflection temp @264psi	ASTM D648	оС	125
Vicat Softening Point	ASTM D1525	оС	149