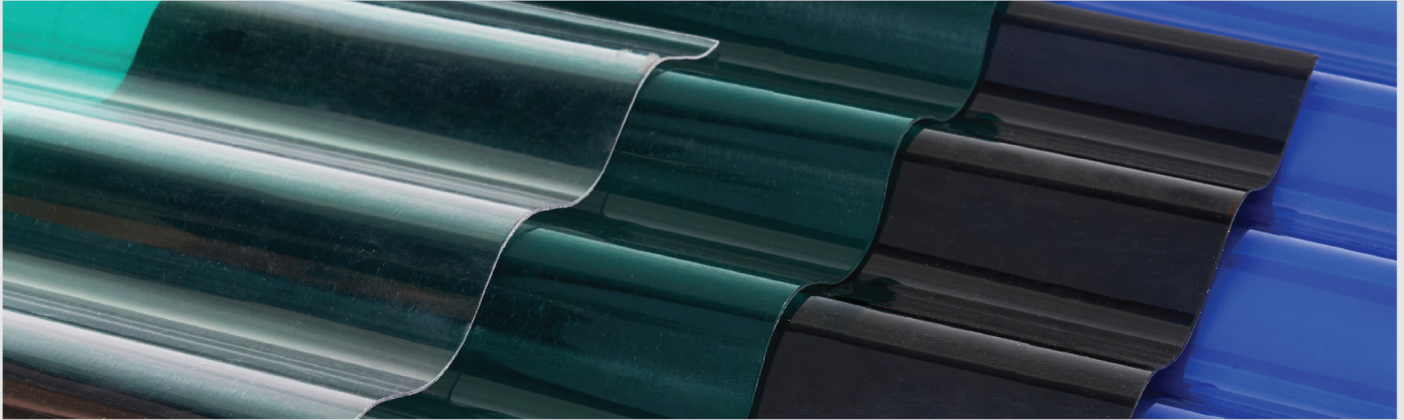


ACEWELL


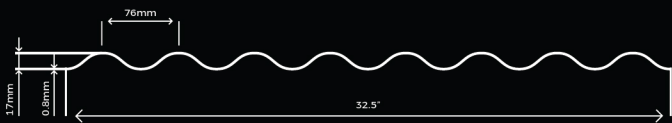
Corrugated Polycarbonate



Variations

Colors: Bronze, Clear, Blue, Green


Thickness (mm)	Dimensions (ft x ft)	Type
0.8	2.66 x 8, 2.66 x 12, 2.66 x 16	Panel



Lightweight
Only half the density of glass, which could save delivery and installation cost.




Impact Strength
Greater impact strength compared to annealed glass.




High Clarity
Up to 91% light transmission rate.




Flame Retardancy
Self-extinguishing; does not amplify flames or give off toxic gases.




Thermal Stability
Minimal property changes within the temperature range of -40°C to 120°C.



Weatherability
Co-extruded UV layer enables long-term UV radiation protection.



Heat Insulation
Good thermal insulation performance, minimizing heat consumption.



Formability
Ease of fabrication; a huge range of shapes and sizes can be formed.

Technical Data

Test Item	Test Method	Test Condition	Result
Density	ASTM D792-13 Method B	Absolute Alcohol 23 ± 0.5 °C	1.19 g/cm ³
Total Luminous transmittance	ASTM D1003-13 Procedure A	1.07 mm; Light source: C	90.7%
Haze			2.3%
Impact Resistance	ASTM D5420-16	Specimen thickness: 0.98mm; Geometry: GE; Strike weight: 3.6kg	Mean Failure Energy: 18.4 J
Coefficient of linear thermal expansion	ASTM E831-19	Transverse-Specimen: 10.00 mm x7.89 mm x1.00 mm; Lengthways-Specimen: 10.00 mm x7.85 mm x1.00 mm; Rate of temperature: 5°C/min Load: 4kPa; Flow rate (He): 50ml/min; Test temperature: 20°C-80°C; Test mode: Tension	X direction: 76.6 um/(m·°C)
			Y direction: 76.4 um/(m·°C)
Rockwell Hardness	ASTM D785-08(2015) Procedure A	Specimen thickness: 6.80 mm (6 layers piled up)	108 R
Tensile Modulus	ASTM D638-14	Specimen: Type 1; Specimen thickness: 1.02 mm; Testing speed: 5 mm/min; Gauge length: 50 mm; Distance between grips: 115 mm	2650 MPa
Tensile Strength		Specimen: Type 1; Specimen thickness: 1.03 mm; Testing speed: 50 mm/min; Gauge length: 50 mm; Distance between grips: 115 mm	71.0 MPa
Elongation at break			100%
Yellowness Index	ASTM E313-15	Sphere spectrophotometer d/8; Illuminant: D65; Observer: 10°; Test mode: Total transmittance; Aperture diameter: 22mm	1.27

Disclaimer Notice: This information is given in good faith and to the best of our knowledge, but without any warranty. Users of our materials should determine the suitability for a specific application. It is always advisable to do preliminary testing.