

# Polycarbonate Shower Walls



Introducing our revolutionary polycarbonate shower walls— the quick, ultimate solution for your bathroom needs that doesn't break the bank! Our shower walls offer the perfect combination of timely delivery, cost-effectiveness, durability, and impenetrability, all in one comprehensive package.

Brickwholesaleglass.com  
 832-590-6499  
 9700 W Gulf Bank Rd.  
 Houston, TX 77040

## Honeycomb style



## Diagonal Brick Style



## Brick Style



Index	Unit	Index Value
Density	g/cm <sup>3</sup>	1.75~1.95
Water-Absorbing Quality	mg	S20
Molding Shrinkage	%	<0.15
Thermal Deformation Temperature (Method A)	°C	>240
Impact Strength	KJ/m <sup>2</sup>	>60
Bending Strength	MPa	>150
Insulation Resistance	Normalization	21.0x10 <sup>13</sup>
	After 24 hrs of immersion	>1.0x10 <sup>12</sup>
Dielectric loss factor		<0.015
Relative Dielectric Constant		<48
Arc Resistance	S	>180
Resistance to leakage marking index (PTI)	V	>600
Inflammability	Grade	FVO
Electrical Strength (90 °C Transformer oil)	MV/m	

## What is Polycarbonate?

Polycarbonate is an excellent choice for the entire bathroom. It is a dry sheet prepreg composed of resin, low shrinkage additives, fillers, curing agents, thickeners, release agents, and reinforcing fibers. It boasts excellent electrical properties, corrosion resistance, lightweight characteristics, and ease of engineering design. It is flexible and its mechanical properties can be comparable to some metals, with specific strength exceeding that of carbon steel. Therefore, it is widely used in the bathroom, home appliance shells, internal structural parts, automobile transportation, electrical engineering, and other industries.

## Has The Following Advantages:

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### Lightweight

Polycarbonate parts are 20-30% lighter than steel, which helps to reduce the overall weight of bathroom components while maintaining strength. This reduces installation difficulties and project delays associated with heavier parts.

### Excellent Physical Properties

Polycarbonate's physical performance metrics rival those of metal materials. It maintains mechanical properties even at high temperatures, which is unmatched by many other thermoplastics, making it an ideal plastic alternative to steel.

### High Degree of Integration and Design Freedom

Polycarbonate's flow characteristics and molding process allow for the one-time molding of multiple components (such as positioning parts, connectors, stiffeners, flanges, and holes). This reduces the need for molds, tooling, welding, and assembly, thereby cutting costs and enabling cost-effective production of low-yield parts.

### Corrosion Resistance, Good Bending Resistance, High Reliability

Polycarbonate is inherently corrosion-resistant, eliminating the need for additional treatments like phosphating. This reduces costs and energy consumption compared to metals. Polycarbonate shower walls are ideal for bathrooms due to their high resistance to moisture and humidity, ensuring durability and easy maintenance in consistently damp environments.

### Outstanding Heat Resistance and Coating Ability

Polycarbonate products offer good heat resistance, maintaining dimensional stability from -50°C to +200°C after molding.

### Great Insulation

Polycarbonate's insulation properties are excellent, providing superior thermal performance by effectively reducing heat transfer and maintaining a comfortable temperature.

### Excellent Surface Temperature

Due to its low thermal conductivity, polycarbonate remains warm to the touch even in cooler temperatures. This makes it ideal for environments where comfort and temperature regulation are crucial, ensuring your shower stays pleasant and inviting.

### More Environmentally Friendly

Polycarbonate requires high-temperature molding at 150°C, and there is almost no volatile matter under normal temperature conditions. It is safer and more reliable than some plastic materials and painted products. The primary raw materials include polycarbonate special yarn, unsaturated resin, low shrinkage additives, fillers, and various auxiliaries. After high-temperature molding, it exhibits high mechanical strength, low weight, corrosion resistance, long service life, high insulation strength, arc resistance, flame retardancy, good sealing performance, and flexible product design. It is easy to scale production and offers safety, beauty, and all-weather protection, making it suitable for harsh outdoor environments. Polycarbonate overcomes issues like rust, short lifespan, and poor thermal insulation seen in outdoor metal equipment and is widely used in telecommunications, electrical power, and railway sectors.



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