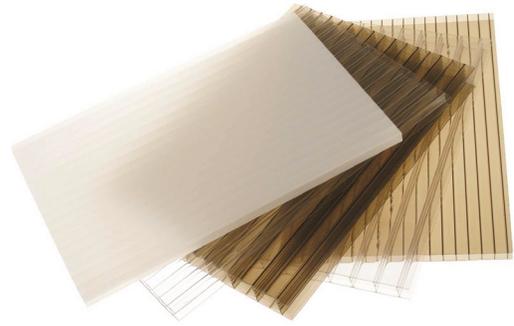


# Thermaglas™ Multiwall Polycarbonate

## Multi-Wall Structured Polycarbonate Sheet



### Description and Overview

Thermaglas™ is a multiwall polycarbonate sheet designed for selective light transmission and radiation. It has proprietary condensate control technology that maximizes light transmission by minimizing water droplet formation that would reflect valuable sunlight. Thermaglas™'s condensate protection is built into the bottom of the panel, while the top is coated with a special 99.5% UV protection coat that blocks harmful ultraviolet rays and only transmits beneficial radiation.

Thermaglas™ has excellent thermal insulation and is weather resistant. It is Class A fire rated and is self-extinguishing. As a result of its cellular multi-layer structure, Thermaglas™ is 60% more energy-efficient than similar glass products, and 25% more energy-efficient than 8mm twinwall acrylic.

### Applications and Uses

By reducing or eliminating condensate drip, Thermaglas™ helps prevent various moisture-related diseases in crops and improves crop quality and yield, making it an ideal fit for greenhouses and other applications such as retail garden centers and outdoor signage.

Thermaglas™ may be installed with ordinary tools and cold-formed to arch. Besides greenhouse applications and outdoor signage, it can be used wherever selective light transmission and radiation is needed. This includes anything from packing and holding areas to swimming pool coverings.

- Commercial greenhouses and garden centers
- Packing and holding areas
- Skylights and sidelights
- Signs and displays
- Covered walkways
- Industrial roofing and glazing
- Swimming pools

### Properties and Specifications

Optimal Service Temperature Range	-40° F to +248° F (-40° C to ± 120° C)	ASTM D-648
Maximum Service Temperature	270° F (132° C)	
Heat Deflection Temperature(Load: 264 PS)	275° F	
VICAT Softening Temperature (Load: 2.2 lb.)	300° F	ASTM D-1525
Coefficient of Linear Thermal Expansion	3.6 x 10(5)in./in.°F	ASTM D-696
Thermal Conductivity (BTU-in/hr-ft2- °F)	1.45	ASTM C-177

### Mechanical

Tensile Strength At Yield (0.4 in./min.)	9,400 psi	ASTM D-638
Tensile Strength At Break (0.4 in./min.)	8,800 psi	
Elongation At Yield (0.4 in./min.)	6%	
Elongation At Break (0.4 in./min.)	> 90%	
Tensile Modulus of Elasticity (0.4 in./min.)	350,000 psi	
Flexural Modulus (0.052 in./min.)	380,000 psi	ASTM D-790
Flexural Strength At Yield	14,500 psi	ASTM D-790
Rockwell Hardness	118 R Scale	ASTM D-785
Density	75 lb/ft(3)	ASTM D-792
Specific Gravity	1.2 g/cc	ASTM D-792

330 Commerce Circle  
 Sacramento, CA 95815  
 (888) 768-5759



WARNING: This product can expose you to chemicals, which are known to the State of California to cause cancer, birth defects, and/or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



[www.interstateplastics.com](http://www.interstateplastics.com)