



# ThermaGlas™ Opaque

Multiwall Polycarbonate for Light Deprivation Applications



## Overview

Palram's ThermaGlas Opaque product is a 100% opaque multiwall panel engineered for crops or species requiring complete light deprivation, or for applications requiring security against visibility from outside the structure. This lightweight, easy-to-install, insulated panel can be used in a wide range of temperatures. With a highly reflective outer skin and a black core, ThermaGlas Opaque ensures 0% light transmission, yet allows for high reflectance for interior lighting when desired. Its multiwall structure offers insulation to help maintain consistent temperatures inside the structure. ThermaGlas Opaque is a durable solution for specialty greenhouses, storage areas and more.

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## Main Benefits

- Excellent thermal insulation
- Impact resistance
- Light weight – Easy to handle
- UV co-extruded on both sides
- Low flammability
- Easy to work with and install using ordinary tools
- Rigid, yet capable of cold-forming to an arch
- Wide service temperature range (-40°F to 212°F)
- White interior to reflect interior lighting which optimizes indoor growing efficiency.



## Typical Applications

### SIDE & END WALLS FOR:

- Commercial greenhouses
- Aquaculture applications
- Packing and holding areas

**IMPORTANT NOTE:** For roof applications, consider ThermaGlas Plus 8mm twin- or triplewall polycarbonate with built-in condensate control. It offers excellent light transmission, while providing up to 60% more energy efficiency than glass, and 25% more efficiency than 8mm twin-wall acrylic.



# ThermaGlas™ Opaque

ThermaGlas Opaque is co-extruded with a reflective gloss white exterior and a black thermal regulating interior

White Exterior

Black Interior

White Exterior



## An Opaque Panel with Excellent Reflective Qualities

ThermaGlas Opaque is perfect for applications where you need a highly reflective panel for use with indoor lighting systems or wish to maximize available natural light from your greenhouse roofing. The co-extruded black interior provides absolute privacy, 0% light transmission and high thermal insulation. In order to preserve this opacity, it is recommended to use metal profiles to join the panels.

## Standard Dimensions

ThermaGlas Opaque is available in 72" widths. Special dimensions are available upon request with minimum order requirements.

## Flammability

ThermaGlas sheets are essentially self-extinguishing and comply with the most demanding of international resistance standards defined in the field of plastics, as indicated by the representative results in the table below.

Country	Standard	Classification
United States	ASTM D-635	CC-1
United States	ASTM E-84	Class A

## Warranty

ThermaGlas Opaque features a 10 year warranty against gain of light transmission, and damage due to hail impact (see warranty for details).



Here ThermaGlas Opaque panels are used as a highly reflective interior sidewall.



ThermaGlas Opaque panels are being used to full advantage, providing maximum reflection of indoor lighting at night. Note the opacity of the panels at front.



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