



ThermaGlas™ SolarSoft 80

Light Diffusing Multi-Wall Structured Polycarbonate Sheets



Overview

SolarSoft diffuses light transmitted through the sheet, while still transmitting a high level of PAR light (80%). The mechanical properties of ThermaGlas SolarSoft can be considered to be the same as other types of ThermaGlas, such as Clear or White/Opal.

Diffusing the sun's direct radiation is beneficial for plants. With ThermaGlas SolarSoft, plants or flowers get very high levels of PAR light, but direct radiation of infrared is diffused, which helps to reduce leaf temperature and plant burning. Furthermore, light penetrates deeper into the canopy, improving plant growth.

SolarSoft can also be beneficial for humans. A person standing under ThermaGlas SolarSoft, while receiving almost the same amount of light as with Clear, will not feel harsh heat-giving radiation from the sun, and therefore will feel much more comfortable.

The SolarSoft resin component is UV protected with the same co-extrusion protection as all other ThermaGlas products (99.9% UV protection).

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Main Benefits

- High PAR light transmission
- Diffused softer light
- Deeper penetration of light to the plant canopy
- Impact resistance—*virtually unbreakable*
- Light weight & easy to install
- Weather and UV resistant
- Low flammability (available with CC1 rating)
- Wide service temperature range
- 10 year limited warranty



Typical Applications

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



ThermaGlas™ Solar Soft 80 *High PAR Light Transmission with Improved Diffusion*

ThermaGlas SolarSoft 80 features all the advanced technology of ThermaGlas, such as 100% UV protection and guaranteed condensate control, but with SolarSoft pigmentation, you reap the benefits of up to 95% light diffusion. This allows for diffusion of shadows cast by overhead cross members, and also allows for the more diffuse light to penetrate deeper into the plant canopy.

Benefits of diffused light

Diffused light penetrates deeper for greater photosynthesis

- Diffused light encourages better growth due to superior distribution of light
- Helps to provide benefits such as improved crop yield, higher leaf count, lower crop temperature and shorter crop time
- Prevents photo inhibition
- Decreases water run-off by allowing plants to be placed closer together

The table below shows a comparison of ThermaGlas Clear, White/Opal and SolarSoft products:

Property	Type of ThermaGlas & Pigmentation		
	Clear	SolarSoft 80	White/Opal
Light Transmission	80%	80%	45%
Diffusion (Haze)	22%	95%	100%

Overview of Typical Properties

See the *ThermaGlas Technical and Installation Guide* for additional specifications and details. For detailed information on ThermaGlas physical properties please visit: PalramAmericas.com/thermaglas-line

	Other Properties		
	Sheet Thickness	Weight	Minimum Radius for Cold Bending
Twin-Wall Profile 	8mm	1500 g/m ²	1.4m
	5/16"	.31 lb/sf	55"
	Standard Widths	Optional Widths*	Standard Length†
	48", 72"	47.25", 71.25"	24'

* Minimum purchase requirements may apply.

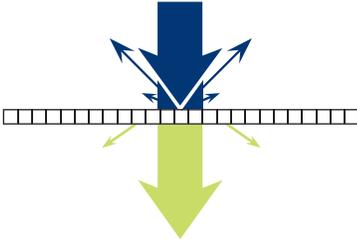
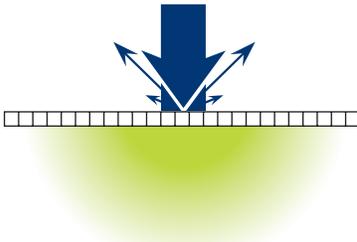
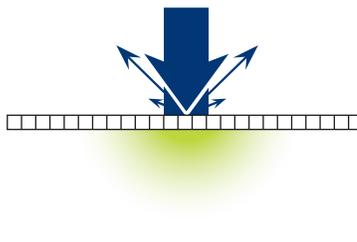
† Lengths up to 48' are available with minimum purchase requirements. Installed lengths are recommended to be 24' or less.

Installation

For detailed installation information, ThermaGlas Technical & Installation Guide Form (#3201).

Warranty

ThermaGlas features a 10 year warranty against loss of light transmission due to yellowing, damage due to hail impact, and for condensation control performance (see warranty for details).

Light Transmission Characteristics of ThermaGlas Products		
Clear	SolarSoft 80	White/Opal
		
80% PAR Light Transmission 22% Diffusion (Haze)	80% PAR Light Transmission 95% Diffusion (Haze)	45% PAR Light Transmission 100% Diffusion (Haze)



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