

THERMAGLAS

Multi-Wall Structured Polycarbonate Sheets

Palram's ThermGlas multi-wall polycarbonate sheets offer high light transmission, maximum impact resistance, and superior insulation. This combination yields a strong, energy efficient, and lightweight sheet that is optimum for greenhouse applications.

Overview

ThermaGlas is available in a variety if tints and special pigments, providing solutions for applications as diverse as production, propagation, holding areas, and retail garden centers.

ThermaGlas Plus products feature built-in condensation control so durable and effective it's warranted for 10 years. The result is higher light transmission and reduced moisture-related disease.

ThermaGlas 8mm triple-wall polycarbonate offers excellent light transmission, while providing up to 60% more energy efficiency than glass, and 25% more efficiency than 8mm twin-wall acrylic.



Features at a Glance

- Superb thermal insulation—saves energy
- Impact resistance—virtually unbreakable
- Light weight
- Weather and UV resistant
- Low flammability (available with CC1 rating)
- Easy to work with and install using ordinary tools
- Rigid, yet capable of cold-forming to an arch
- Wide service temperature range
- 10 year limited warranty
- Available in 47-1/4", 48", 71-1/4" and 72" widths



Primary Applications

- Commercial greenhouses
- Retail garden centers
- Packing & holding areas

Other Applications

- Skylights and sidelights
- Signs and displays
- Covered walkways
- Industrial roofing & glazing
- Swimming pools

SUNLITE® multi-wall polycarbonate a sister product of ThermaGlas—is also available for these other applications. SUNLITE does not feature guaranteed built-in condensate control.





Table of Typical Properties

10mm

8mm

10mm

16mm

Triple-Wall

See the ThermaGlas Technical and Installation Guide for additional specifications and details.

H.D.T. (264 p	.s.i.)		222 °F			
Thermal Expansion Delta T @ 104 °F			0.03 in./ft. clear & opal 0.0.54 in./ft. bronze			
Service Temperature Range			-40 °F to +250 °F			
Light Transmission						
Product /		Color or Tint				
Profile	Thkns.	Clear	Bronze	White Opal	SLT	Solar Ice
	4mm	82%	35%	30%	><	\times
Twin-Wall	6mm	80%	35%	20%		
	8mm	80%	35%	45%	60%	25%

35%

35%

35%

35%

30%

45%

48%

25%

25%

Thickness, Weight & Insulation Values

79%

76%

76%

76%

Due do et / Duefile	Thickness		Weight		R-	U-
Product / Profile	inch	mm	lb/psf	g/m²	R- Factor 1.49 1.62 1.72 1.72 1.89 1.99 2.08 2.36	Value
Twin-Wall	5/32	4	0.16	800	1.49	0.67
	1/4	6	0.27	1,300	1.62	0.62
	5/16	8	0.31	1,500	1.72	0.58
			0.35	1700	1.72	0.58
	3/8	10	0.35	1,700	1.89	0.53
Triple-Wall	5/16	8	0.35	1,700	1.99	0.50
	3/8	10	0.41	2,000	2.08	0.47
	5/8	16	0.55	2,700	2.36	0.42

Products, Colors and Dimensions

Standard Products: ThermaGlas Plus is manufactured with built-in anti-condensation properties on one side of the panel and ±100% UV protection on the other side of the panel. Therma Glas UV2® with UV protection on both sides of the panel is also available for exterior applications or open-roof greenhouses.

Standard Colors: Clear (transparent), Bronze, White Opal

Standard Widths: 471/4", 48", 711/4" and 72"

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).

Available with SolarSmart[™] Technology

Some ThermaGlas products are part of Palram's SolarSmart™ family of products. SolarSmart products are designed to selectively transmit or screen certain wavelengths of solar radiation in order to achieve benefits for specific environments or applications. As an example, ThermaGlas SLT provides good PAR light transmission, but reduces solar transmission perfect for retail garden centers.

For more information, contact your Authorized Palram Representative.

Flammability

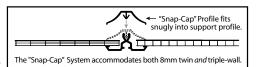
ThermaGlas sheets are essentially self-extinguishing and comply with the most demanding of international resistance standards defined in the field of plastics, as indicated by the representative results in the table below.

Country	Test Method	Classification
United States	ASTM D-635	CC-1
United States	ASTM E-84-00	Class A

ThermaGlas "Snap-Cap™" Glazing System

The "Snap-Cap" Glazing System's includes a unique PVC "Snap-Cap." This attractive and functional member snaps down into the extra strong aluminum support rafter.

This heavy-duty, UV- and weather resistant "Snap-Cap" is designed to receive a "Snap-Cap"



member without having to drill holes or use threaded fasteners and helps reduce thermal conduction. The result is easier installation, more strength, and greater energy efficiency, compared to all plastic or all aluminum systems.

Visit ThermaGlas.com or www.PalramHort.com

To get the most complete and up-to-date information about ThermaGlas, the "Snap-Cap" glazing System, DYNAGLAS ™ and other Palram Products, visit www.ThermaGlas.com, or www.PalramHort.com.



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PALRAM AMERICAS

Kutztown, PA 19530 Phone: (800) 999-9459 Fax: (610) 285-9928

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