



# SUNLITE® HG

## *Multi-Wall Structured Polycarbonate Textured Sheet*

### ► Overview

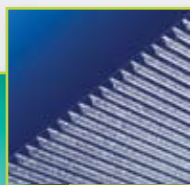
Sunlite HG polycarbonate sheets combine the benefits of a multi-wall polycarbonate sheet with an attractive textured finish that looks similar to Hammered Glass, hence the HG moniker. Sunlite HG provides highly diffused light transmission and a semi-private transparency, allowing for multiple uses. Sunlite HG is ideal for architects, display manufacturers, fabricators, and contractors looking for something special, but cost effective and easy to use.

### ► Features at a Glance

- Impact resistance—virtually unbreakable
- Lightweight and easy to work with
- Attractive hammered glass texture
- Semi-private texture with transparent open feeling
- Provides diffused light—less shadows and softer light
- Multi-wall panel for thermal insulation—saves energy
- Many thicknesses for many uses
- High fire performance rating
- Weather and UV resistant for long life

### ► Applications

- Wall partitions
- Skylights
- Architectural glazing
- Light covers
- Awnings
- Sun rooms
- Retail or museum displays



### ► Working with Sunlite HG

Sunlite HG polycarbonate sheets are light weight and very easy to work with. For most applications only simple tools are necessary. Panels can be easily cut to size using an ordinary utility knife.



### ► Arched Radius Applications

Sunlite HG is sufficiently flexible to allow vertically positioned panels to conform to arched construction. However, when installing thicknesses less than 8mm, it is not recommended that panels be affixed to curved surfaces where the curve radius is less than 55 inches. Affixing the panel to tighter radii surfaces may result in local stress crazing and deterioration over time.

### ► Warranty

See printed warranty for details. Contact Palram or your authorized dealer for printed warranty.

Physical Properties	4 mm Twinwall	6 mm Twinwall	8 mm Twinwall	10 mm Twinwall
Density (ASTM D-792)	75 lbs/ft <sup>3</sup>	75 lbs/ft <sup>3</sup>	75 lbs/ft <sup>3</sup>	75 lb./ft <sup>3</sup>
Area Weight	800 gr/m <sup>2</sup> – 0.16 (psf)	1300 gr/m <sup>2</sup> – 0.27 (psf)	1500 gr/m <sup>2</sup> – 0.35 (psf)	1700 gr/m <sup>2</sup> – 0.35 (psf)

Mechanical Properties	4 mm Twinwall	6 mm Twinwall	8 mm Twinwall	10 mm Twinwall
Tensile Strength at Yield	9,000 psi			
Tensile Strength at Break	9,500 psi			
Elongation at Yield	6%			
Elongation at Break	>80%			
Tensile Modulus of Elasticity	290,000 psi			
Minimum Bending radius	700 mm or 27.6"	1,050 mm or 41.3"	1,400 mm or 55.1"	1,750 mm or 68.9"

Thermal Properties	4 mm Twinwall	6 mm Twinwall	8 mm Twinwall	10 mm Twinwall
Long Term Service Temperature	-40 to 212 °F (-40 to 100 °C)			
Short Term Service Temperature	-58 to 250 °F (-50 to 120 °C)			
Coefficient of Linear Thermal Expansion	3.6E -5/ °F			
R Value $\frac{\text{Hr}\cdot\text{ft}^2\cdot\text{°F}}{\text{BTU}}$	1.49	1.58	1.72	1.89

Optical Properties	4 mm Twinwall	6 mm Twinwall	8 mm Twinwall	10 mm Twinwall
Light Transmission (ASTM D1003)	82%	81%	80%	78%
Haze (ASTM D1003)	50%	50%	55%	60%

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*Authorized Dealer*



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