

# Light Gray Glass Data Sheet

## Overview:

Light Gray glass is also called Gray or Smoke Gray glass. Light Gray glass is a tinted soda lime float glass product with a medium gray color that deepens as thickness increases. The mechanical and physical properties of Light Gray glass are similar to other soda lime float glass products. Light Gray glass also reduces ultraviolet energy transmittance, allowing only 20% of the UV energy to pass through the glass.

## Features and Benefits:

- Ultraviolet energy has long been associated with the accelerated fading of fabrics and other interior materials.
- Light Gray glass can be heat tempered

## Material Properties:

Modulus of Elasticity (Young's)	10.6 x 10 <sup>6</sup> psi	73.1 GPa
Modulus of Rigidity (Shear)	6.0 x 10 <sup>6</sup> psi	41.4 GPa
Poisson's Ratio	0.22	0.22
Refractive Index	1.51	1.51
Knoop Hardness	470	470
Density	157 lb/ft <sup>3</sup>	2510 kg/m <sup>3</sup>
Coefficient of Thermal Stress	50 psi/°F	0.62 MPa/°C
Thermal Conductivity at (75°F)	6.5 Btu.in/hr.°F.ft <sup>2</sup>	0.937 W.m/m <sup>2</sup> .°C
Specific Heat at (75°F)	0.205 Btu/lbm.°F	0.858 kJ/kg.°C
Coefficient of Linear Expansion (75-575°F)	4.8 x 10 <sup>-6</sup> /°F	8.6 x 10 <sup>-6</sup> /°C
Softening Point (ASTM C 338)	1336°F	724°C
Annealing Point (ASTM C 336)	1016°F	547°C
Strain Point (ASTM C 336)	944°F	507°C
Specific Gravity	2.53	2.53
Emissivity at (75°F)	0.84	0.84

## Dimensions of Standard Products

Thickness	0.118" to .236"	3 mm to 6 mm
Stock Sizes	84" x 72"	2134 mm x 1830 mm

## Solar Performance Values

Glass Thickness mm	Transmittance				Reflectance	
	UV%	Visible%	Infrared%	Total Solar%	Visible%	Total Solar%
3.0	37	60	55	58	6	6
5.0	29	50	44	48	6	5
6.0	24	44	37	42	6	5

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Performance Data: (data collected on 3mm thickness)

Transmission Curve

