

PPG Starphire

DESCRIPTION: Starphire float glass is a crystal clear soda-lime glass product. Its high visible light transmission and brilliant edge are two characteristics unique to Starphire glass. This glass has a low iron composition with mechanical and physical properties similar to ordinary clear soda-lime glass.

APPLICATIONS: Starphire Glass is used where high visible light transmission and a clean-looking edge are desired.

SHEET SIZES: Largest is about 48" x 65", with these **AVAILABLE THICKNESSES:**

Thickness (mm)	3.3	6.0	10	12.7
Tolerance (mm)	± 0.127	+ 0, -0.43	+ 0.313, -0.985	± 0.79

PROPERTIES:

Refractive Index n_d ($\lambda = 588 \text{ nm}$) = 1.5183

Transmission (estimated at .15 mm thick)

@ 300 nm 37.9%	@ 330 nm 80.8%	@ 360-380 nm 90%+
@ 740 nm 89.1%	@ 1200 nm 86.1%	@ 2100 nm 87.0%

Mechanical and Thermal

Density: 2.5 g/cm³ Young's Modulus: 73.1 GPa Thermal Coefficient of Expansion (0-300°C) = 90.3 x 10⁻⁷

Chemical

Chemical Solubility	Total Solids: 0.167%	Total Alkali: 0.050%		
Approximate Chemical Composition	Silicone Dioxide: 73%	Sodium Oxide: 15%	Calcium Oxide: 10%	Trace Elements 2%
Electrical	Dielectric Constant: 5.7	Surface Resistivity: 10 ⁶ - 10 ⁸ ohms/sq.		