

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.

Available Thicknesses:

Sheet Sizes: Approximately 48" x 65"

Thickness	Tolerance
3.3mm	± 0.127mm
6.0mm	+0mm, - 0.43mm
10.0mm	+0.313mm, - 0.985mm
12.7mm	± 0.79mm

Transmission: (@5.66 mm thick)

@330nm	< 5%
@350nm	50%
@380-680nm	90%+
@740nm	89.1%
@1200nm	86.1%
@2100nm	87.0%

Properties:

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

Electrical:

Dielectric Constant, (1Mhz, 20°C) 5.7
 Surface Resistivity (20°C) $10^6 - 10^8$ ohms/sq.

Chemical:

Chemical Solubility:

Total Solids	0.167%
Total Alkali	0.050%

Approximate Chemical Composition:

Silicon Dioxide	73%
Sodium Oxide	15%
Calcium Oxide	10%
Trace Elements	2%

Mechanical and Thermal:

Density	2.5 g/cm ³
Thermal Coefficient of Expansion (0-300°C)	$90.3 \times 10^{-7}/\text{C}$
Young's Modulus	73.1 GPa

Applications:

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

Flatness, parallelism, cutting tolerances, roughness, cosmetic defects and visual inspection all conform to the specifications to be agreed upon by Precision Glass & Optics and the customer.

