

Corning Iris[®] Glass

Product Information

As the industry moves toward sleeker, more slender designs, it needs a way to produce thinner displays. Corning Iris[®] Glass is a glass light-guide plate (LGP) for edge-lit LCD displays. Its intrinsic optical and mechanical properties allow set manufacturers to significantly reduce set thickness and create brighter displays with slimmer bezels.

Benefits

- Zero water absorption and 10x lower CTE (than plastic) enable thinner set with ultra narrow bezel
- Outstanding transmission and color shift
- Thermal stability and high thermal conductivity enable brighter displays
- High elastic modulus allows for added rigidity

Product Form

- Fusion-drawn sheet
- Parts with extraction pattern (<40" diagonal)

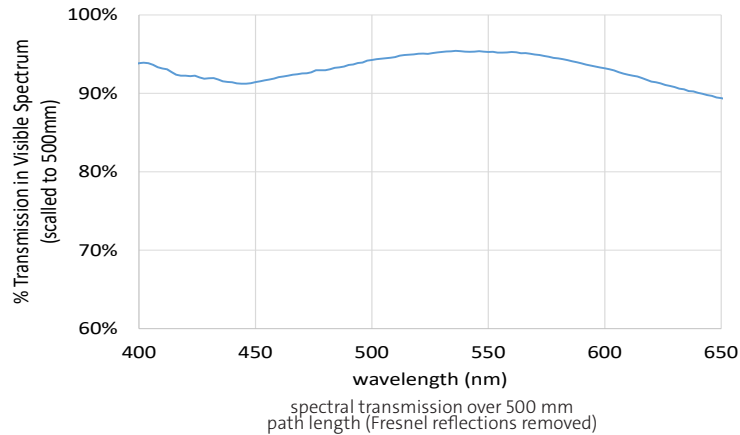
Thermal

Temperature (°C)	Specific Heat (J/g-K)	Thermal Diffusivity (cm ² /sec)	Thermal Conductivity (cm ² /sec)
50	0.89	0.0056	0.012
100	0.95	0.0056	0.012

Properties and Characteristics

Attribute	Nominal Value
Density	2.4 g/cm ³
Coefficient of Thermal Expansion (0°C - 300°C)	< 80 x10 ⁻⁷ /°C
Young's Modulus	> 68 GPa
Refractive Index (633 nm)	1.49
Moisture Absorption	< 0.001%
Poisson's Ratio	0.19
Strain Point	563°C
Anneal Point	615°C
Softening Point	886°C

Transmittance



Dimensions and Product Specifications

Thicknesses	0.7 mm, 1.1 mm, 1.5 mm, 1.8mm, 2.0 mm
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