



CORNING
Iris™ Glass

Corning Iris™ Glass

Product Information

As the display industry moves toward sleeker, more slender designs, it needs a way to produce thinner TVs. Corning Iris™ Glass is a glass light-guide plate (LGP) for edge-lit LCD TVs. Due to its intrinsic rigidity and dimensional stability, it outperforms the incumbent technology - plastic - and allows TV manufacturers to significantly reduce set thickness and create TVs with slimmer bezels.

Corning's new composition also features outstanding transmission and minimal color shift, delivering bright displays with rich, accurate colors.

Dimensions and Product Specifications

Dimensions	Available up to 70" diagonal
Dimensional Tolerance	± 0.5 mm
Thicknesses	0.7 mm, 1.1 mm, 1.5 mm, 2.0 mm
Thickness Tolerance	< 0.1 mm
Edge	Ra ≤ 0.2 μm
Surface Criteria	No visible defect using 600 Lux

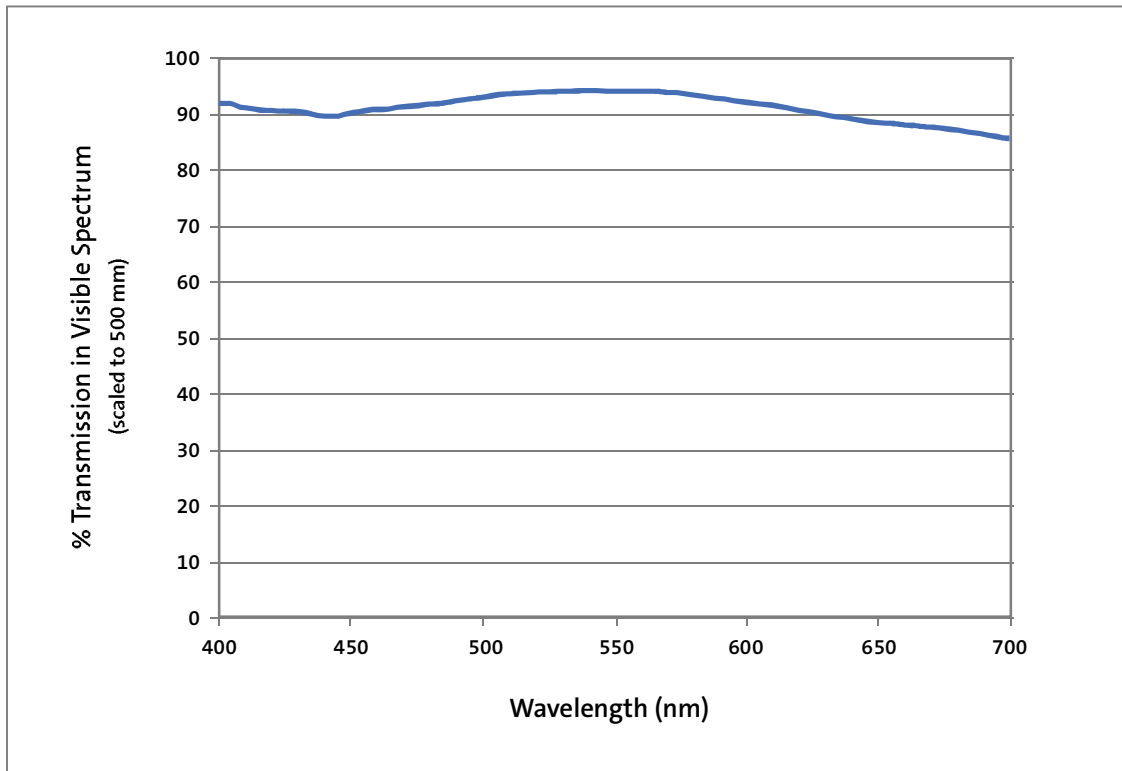
Properties

Density	2.4 g/cm ³
Young's Modulus	> 68 GPa
Refractive index (633 nm)	1.49
Moisture Absorption	< 0.001%
CTE	< 80 x 10 ⁻⁷ / °C

Thermal

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

Transmittance



Spectral Transmission Over 500 mm Path Length
(Fresnel reflections removed)

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