

# Custom Glass Solutions

## Applications

- IR cut-off filters for mobile, tablet PC and CCTV camera devices
- Semiconductor processing for MEMS, CMOS image sensors, advanced packaging and LEDs
- Flat panel digital x-ray detectors
- Electrochromatic windows and mirrors
- Substrates for active matrix flat panel displays

## Benefits

- Pristine and flat surfaces with low roughness — ideal for coatings
- Tight control of thickness
- Ability to match CTE to Silicon
- Excellent chemical durability
- Adaptable to mechanical and laser cutting and dicing technologies

## Glass Type

- Alkaline earth boro-aluminosilicate alkali-free, heavy metal-free (arsenic, antimony, barium)

## Forms Available

- Fusion-drawn sheet
- Score/cut or finished edges to customized dimensions

## Dimensions

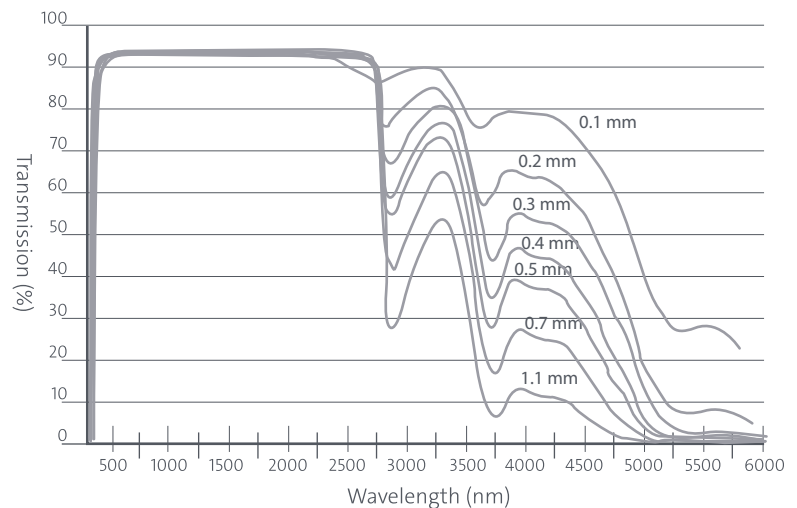
Custom sizes from 25 mm to 1000 mm; round wafer or panel shaped; score/cut or edge finished

Nominal Thicknesses (mm)	0.1	0.2	0.3	0.4	0.5	0.7	1.1
Standard Thickness Range (mm)	±0.01	±0.02	±0.02	±0.02	±0.02	±0.02	±0.03

## Properties and Characteristics

Attribute	Nominal Value
Density (g/cc)	2.3 – 2.5
Coefficient of Thermal Expansion (CTE) (0 to 300 °C) ppm °C	3 – 3.5
Young's Modulus (GPa)	70 – 80
Poisson's Ratio	0.20 – 0.25
Vicker's Hardness (200 g load, 25 sec dwell)	640
Strain Point (°C)	650 – 700
Anneal Point (°C)	700 – 750
Dielectric Constant (k=E0/E)	5 – 6
Surface Roughness Ra (nm)	< 0.5 to < 1.0
Refractive Index (@ 589.3 nm)	1.50 – 1.52
% Transmission (400 nm to 800 nm)	> 90

## Optical Transmission



Precision Glass  
Solutions

CORNING

Superior  
Standards

## Custom Glass Solutions

Material, treatment, and design expertise for specialized applications of glass

Corning Custom Glass Solutions is a one-stop-shop for multiple requirements. We offer made-to-order sizes, thicknesses, and volumes of world-renowned compositions including Eagle XG® Slim, Willow®, and Lotus™ NXT. All glasses are Alkaline earth boro-aluminosilicate, alkali-free, and contain no heavy metals (arsenic, antimony, barium). Value-add solutions including coatings, mirroring, and screen printing are also available.

### Regional Sales Offices

China  
Corning China (Shanghai) Regional Headquarters  
6F, Li Ming Building, 111 Gui Qing Road  
Shanghai, 200233, China  
t: 0086 21 3338 4338  
f: 0086 21 3338 4300

Europe  
Corning GmbH—Corning International  
Abraham-Lincoln-Strasse 30  
65189 Wiesbaden, Germany  
t: +49 611 7366 159  
f: +49 611 7366 143

Japan  
Corning International K.K.  
Akasaka Intercity 7th floor  
1-11-44 Akasaka, Minato-ku  
Tokyo, 107-0052, Japan  
t: +81 3 3586 1052  
f: +81 3 3587 0906

Korea  
Corning Korea Company Ltd.  
6th Fl., Gangnam Finance Center  
152, Teheran-ro, Gangnam-gu,  
Seoul, 06236, Korea  
t: +82 2 796 9500  
f: +82 2 796 9300

North America  
Corning Incorporated  
HP-CB-06  
One Museum Way  
Corning, NY 14831  
United States  
t: +607 974 9000

Singapore  
Corning Singapore Holdings Pet Ltd.  
1, Kim Seng Promenade  
Great World City  
#9-11/12 West Tower  
237994, Singapore  
t: +65 65729740  
f: +65 67352913

Taiwan  
Corning Incorporated-Taiwan  
8F, No. 8, Sec.3, Minsheng E. Rd.  
Zhongshan Dist., Taipei City 10480  
Taiwan, R.O.C  
t: +886 2 2716 0338  
f: +886 2 2516 7500

Contact us  
[corning.com/precision-glass-solutions](http://corning.com/precision-glass-solutions)  
[precisiongs@corning.com](mailto:precisiongs@corning.com)