



Augmented Reality Wafer

Corning precision glass wafers provide the unique combination of a high-index material with high optical transmission, and exceptional flatness. Corning is uniquely positioned to deliver an integrated glass solution, including high-index precision wafers, high-throughput flatness metrology expertise, and fully automated laser cutting technology.

Benefits

- High transparency
- Low birefringence
- High Index (index 1.7 and above)
- High durability
- Optical quality
- Low TTV
- High mechanical stability, stiffness, better geometrical stability

Capabilities

- Available sizes: 150/200mm wafers
- Thickness $\geq 0.5\text{mm}$
- Profoundly flat
- AR coating can be provided

High Index Glass Wafers

Fully integrated supply chain, from raw glass melting to wafer finishing process

Material	Dimensions	Geometry	Surface
High Index Glass (1.7 index and above)	Rounds D150–200mm	TTV * $<5\mu\text{m}$ Bow $<20\mu\text{m}$	Roughness $<2\text{nm}$
Adjustable to other index glass	$\geq 0.5\text{mm}$ thickness	Wedge <0.1 arcmin	Cosmetic ** 40/20

Supported by Corning® Flatmaster™, a high throughput metrology tool capable of measuring tight geometrical surface attributes accurately and rapidly

* Total thickness variation

** Scratches and digs

For “see-through” consumer electronic applications, Corning’s solutions deliver outstanding field of view, image quality and definition (sharpness, contrast and low chromatic aberrations).

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