

Augmented Reality Solutions

Corning Augmented Reality Solutions is uniquely positioned to deliver an integrated glass solution including high-index glass with high optical transmission and exceptional flatness, high-throughput 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 $\geq 0.3\text{mm}$
- Profoundly flat
- Anti-reflective coating available

High Index Glass Wafers

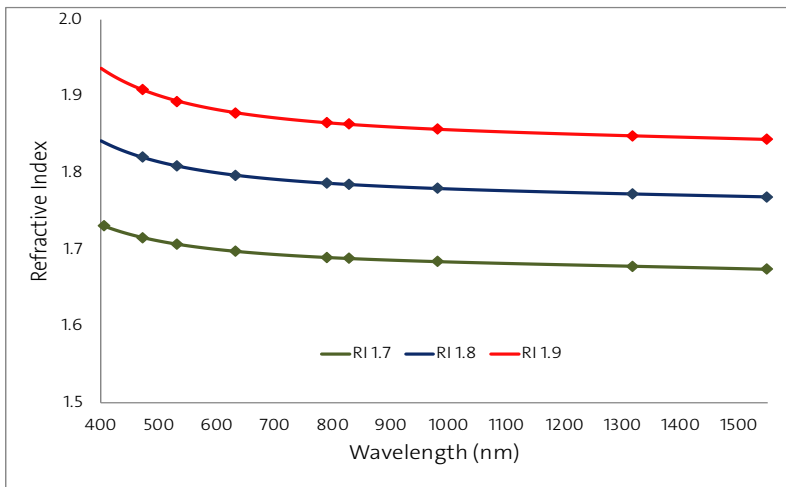
Fully integrated supply chain from raw glass melting to wafer-finishing processes

Material	Dimensions	Geometry	Surface
High index glass (1.7 index and above)	Rounds D150–200mm $\geq 0.3\text{mm}$ thickness	TTV* $\leq 2\mu\text{m}$ Bow $\leq 20\mu\text{m}$ Wedge ≤ 0.1 arcmin	Roughness $< 2\text{nm}$ Cosmetic** 40/20

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

* Total thickness variation
** Scratches and digs

For augmented reality applications, Corning’s solutions deliver outstanding field of view, image quality, and definition (sharpness, contrast, and low chromatic aberrations).



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