

Gorilla™* Glass



Gorilla Glass is a sheet glass, produced by Corning's proprietary Fusion forming technology. It is designed to provide users with a durable glass substrate ideal for use in applications where high strength and damage resistance is required.

* Gorilla Glass is a trademark and is produced by Corning Inc. New York USA

Benefits

- Glass designed for a high degree of chemical strengthening
- High resistance against scratches
- speckless surface

Applications

- handheld mobile displays
- Scanners
- mobile devices
- optical components

Dimensions

Available thicknesses 0.5 – 2.0 mm
Available in Gen 5 (1250 x 900 mm) sheets

Viscosity

Softening Point ($10^{7.6}$ poises)	843 °C
Annealing Point ($10^{13.2}$ poises)	609 °C
Strain Point ($10^{14.7}$ poises)	559 °C

Properties

Density	2.44 g/cm ³
Young's Modulus	71.4 GPa
Poisson's Ratio	0.21
Shear Modulus	29.7 GPa
Vickers Hardness (220g load)	
Non strengthened	625 kgf/mm ²
Strengthened	674 kgf/mm ²
Fracture Resistance	0.7 MPa m ^{1/2}

Thermal

Coefficient of Expansion (0-300°C) $83 \times 10^{-7} / ^\circ\text{C}$

Chemical Strengthening

Compressive stress	Capable > 800 MPa
Depth of layer	Capable > 100 μm

Optical

Refractive Index (633 nm)

Core glass

1.5094

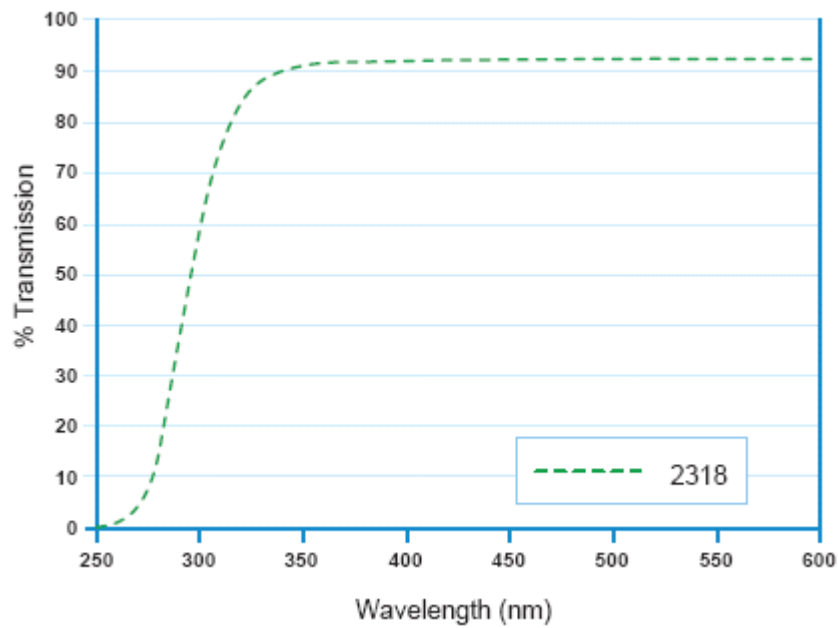
Compression layer

1.5116

Photo-elastic constant

31.8 nm/cm/MPa

Optical Transmission



GLASS OVER POLYMER