



Corning® Gorilla® Glass Victus® 2

Corning continues to push the boundaries of glass by advancing the durability of our toughest Gorilla Glass yet. Gorilla Glass Victus 2 delivers improved drop performance on rough surfaces like concrete, while maintaining the advantaged scratch performance of Corning® Gorilla® Glass Victus®.

Product Information

Benefits

- Improved drop performance, up to 1m on 80-grit and up to 2m on 180-grit
- High resistance to scratch and sharp contact damage
- High retained strength after use
- Superior surface quality, with the same advantaged scratch resistance as Corning® Gorilla® Glass Victus®

Applications

Ideal protective cover material for the front and back of all electronic devices:

- Smartphones
- Notebook PCs
- Tablets
- Smartwatches and wearables
- Smart Home devices
- Cameras
- Commercial and Point of Sale Displays

Thickness

Standard 0.4 mm – 1.2 mm
 Other Available upon request

Viscosity

Softening Point (10^{7.6} poises) 878 °C
 Annealing Point (10^{13.2} poises) 631 °C
 Strain Point (10^{14.7} poises) 579 °C

Properties

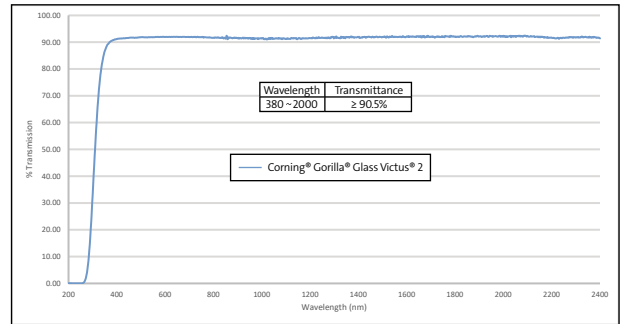
Density 2.41 g/cm³
 Young's Modulus 79 GPa
 Poisson's Ratio 0.22
 Shear Modulus 32.2 GPa
 Vickers Hardness (200g load)
 Unstrengthened 595 kgf/mm²
 Strengthened 670 kgf/mm²
 Fracture Toughness 0.82 MPa m^{0.5}
 Coefficient of Thermal Expansion (0-300°C) 58.8 x 10⁻⁷/°C

Chemical Strengthening

Please contact a Corning Account Manager for chemical strengthening capability based on thickness and application.

Optical

Refractive Index (590 nm)
 Core Glass* 1.51
 Compression Layer 1.52
 Photo-elastic constant 30.8 nm/cm/MPa
 Transmission @ 0.7 mm thickness ≥ 90.5%



*Core index is used for FSM-based measurements since it is unaffected by ion-exchange conditions.

Chemical Durability

Durability is measured via weight loss per surface area after immersion in the solvents shown below. Values are highly dependent upon actual testing conditions. Data is reported for Gorilla Glass Victus 2.

Reagent	Time	Temperature (°C)	Weight Loss (mg/cm ²)
HCl – 5 wt%	24 hrs.	95	3.6
NH4F:HF – 10 wt%	20 min.	20	1.3
HF – 10 wt%	20 min.	20	14.6
NaOH – 5 wt%	6 hrs.	95	2.2

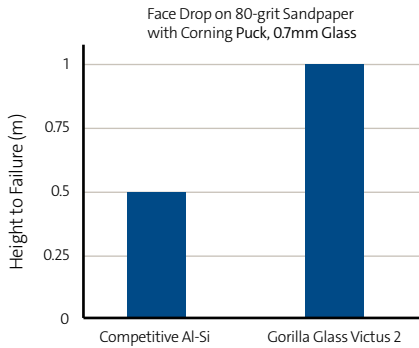
Electrical

Frequency (MHz)	Dielectric Constant	Loss Tangent
54	6.45	0.008
163	6.41	0.008
272	6.40	0.009
381	6.38	0.009
490	6.38	0.008
599	6.37	0.009
912	6.39	0.010
1499	6.37	0.010
1977	6.36	0.011
2466	6.34	0.011
2986	6.33	0.012

Terminated coaxial line similar to that outlined in NIST Technical Notes 1520 and 1355-R.

Drop Test Performance

Gorilla Glass Victus 2 is up to 50% better than competitive Al-Si glasses on 80-grit sandpaper



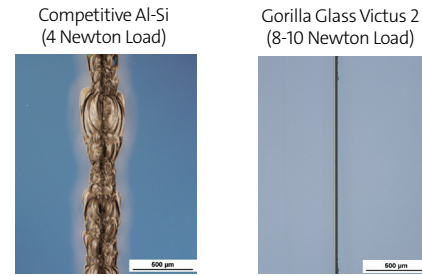
In lab tests, Gorilla Glass Victus 2 survived drops from up to 1 meter on 80-grit sandpaper, simulating rough surfaces.

Competitive aluminosilicate typically fails from less than 0.5 meters.

In additional lab testing, Gorilla Glass Victus 2 survived drops from up to 2 meters on 180-grit sandpaper.

Scratch Test Performance

Gorilla Glass Victus 2 has up to 4x higher scratch threshold than competitive Al-Si glasses



We tested for scratch threshold using our Knoop Diamond Scratch Test. For Gorilla Glass Victus 2, the scratch threshold is typically 8-10 Newtons. The typical threshold for competitive aluminosilicate is at 2-4 Newtons.

TOUGH *Redefined*



Corning® Gorilla® Glass Victus® 2

Always Tough. Always Innovating.

Contact us
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CORNING
Gorilla® Glass