

Corning Large Cover Gorilla® Glass Touch Screen Glass

Category : Ceramic , Glass , Optical

Material Notes:

Corning® Gorilla® Glass is a damage-resistant cover glass that is elegant, lightweight, and durable enough to resist many real-world events that commonly cause glass failure. The composition of Corning Gorilla Glass allows for a deep layer of high compressive stress (created through an ion-exchange process). This compression acts as a sort of "armor," making the glass exceptionally tough and damage resistant. Additionally, Corning Gorilla Glass is formed using the same proprietary fusion process as all of Corning's high-technology display substrates. This extraordinarily precise, highly automated process produces glass with exceptionally clean, smooth, flat surfaces and outstanding optical quality. Large Cover Gorilla® Glass is sized to serve as cover glass for displays including interactive white boards, digital signage and other large-size public displays. Information provided by Corning Incorporated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Corning-Large-Cover-Gorilla-Glass-Touch-Screen-Glass.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------|---------------------------|----------|
| Density | 2.44 g/cc | 0.0882 lb/in ³ | |
| Thickness | 550 - 2000 microns | 21.7 - 78.7 mil | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------------------------|-----------------------------|---|
| Vickers Microhardness | 534 | 534 | kgf/mm ² ; unstrengthened (200 g load) |
| | 649 | 649 | kgf/mm ² ; strengthened (200 g load) |
| Modulus of Elasticity | 71.7 GPa | 10400 ksi | |
| Compressive Strength | 800 MPa | 116000 psi | Chemically Strengthened, >40 µm layer |
| Poissons Ratio | 0.21 | 0.21 | |
| Fracture Toughness | 0.700 MPa-m ^{1/2} | 0.637 ksi-in ^{1/2} | |
| Shear Modulus | 29.6 GPa | 4290 ksi | |

| Thermal Properties | Metric | English | Comments |
|--------------------|-----------------------------|----------------------------|--|
| CTE, linear | 8.45 µm/m-°C | 4.69 µin/in-°F | |
| | @Temperature 0.000 - 300 °C | @Temperature 32.0 - 572 °F | |
| Softening Point | 852 °C | 1570 °F | 10 ^{>7.6</sup> Poise} |
| Annealing Point | 649 °C | 1200 °F | 10 ^{>13.2</sup> Poise} |
| Strain Point | 563 °C | 1050 °F | 10 ^{>14.7</sup> Poise} |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------------------------|--------------------------|-------------------|
| Refractive Index | 1.5094 | 1.5094 | core glass |
| | @Wavelength 633 nm | @Wavelength 633 nm | |
| | 1.5116 | 1.5116 | compression layer |
| | @Wavelength 633 nm | @Wavelength 633 nm | |
| Transmission, Visible | >= 91.5 % | >= 91.5 % | |
| | @Wavelength 380 - 780 nm | @Wavelength 380 - 780 nm | |
| | >= 92.0 % | >= 92.0 % | |
| | @Wavelength 480 - 730 nm | @Wavelength 480 - 730 nm | |

| Descriptive Properties | Value | Comments |
|------------------------|----------------|----------|
| Photo-elastic Constant | 29.4 nm/cm/MPa | |

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