



## The future is flexible: Corning® Willow® Glass

- At roughly the same thickness as a sheet of copy paper, Corning® Willow® Glass is thin enough to be flexible while retaining its superior glass attributes. Willow Glass provides the inherent benefits of glass in a mechanically bendable form-factor, enabling cost-efficient device processing.
- Willow Glass can be used in displays to make thinner and lighter portable devices such as smartphones and tablets, without sacrificing device performance or reliability. It is also an ideal material for laminate applications like kitchen backsplashes and other vertical surfaces.
- Corning's patented edge tabs enable practical use of Willow Glass in roll-to-roll processing.

|             | Sheets                   | Rolls                                   |
|-------------|--------------------------|---|
| Sizes       | Up to 1100mm x 1200mm    | Up to 1.3 m wide and 300 m long         |
| Composition | Alkali-free Borosilicate |   |
| Packaging   | Flat Box / Interleaf     | Rolls/Edge tab/Leader/Trailer/Interleaf |
| Thickness   | 100 µm and 200 µm        | 100 µm and 200 µm                       |

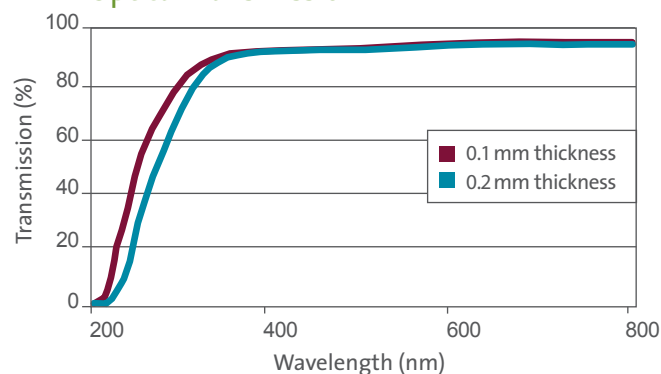
## Sample Characteristics

| Bulk Properties                   | Metric Unit | Nominal Values |
|-----------------------------------|-------------|----------------|
| Density                           | g / cc      | 2.3 – 2.5      |
| CTE (0° to 300° C)                | ppm / °C    | 3 – 5          |
| Young's Modulus                   | GPa         | 70 – 80        |
| Poisson Ratio                     | —           | 0.20 – 0.25    |
| Strain Point                      | °C          | 650 – 700      |
| Annealing Point                   | °C          | 700 – 750      |
| Dielectric Constant ( $k=E_o/E$ ) | —           | 5 – 6          |
| Surface Roughness                 | Ra (nm)     | < 0.5          |
|                                   | Rpv (nm)    | < 20           |
| Minimum Bend Radius*              | mm          | 100 µm = 185mm |
|                                   |             | 200 µm = 370mm |

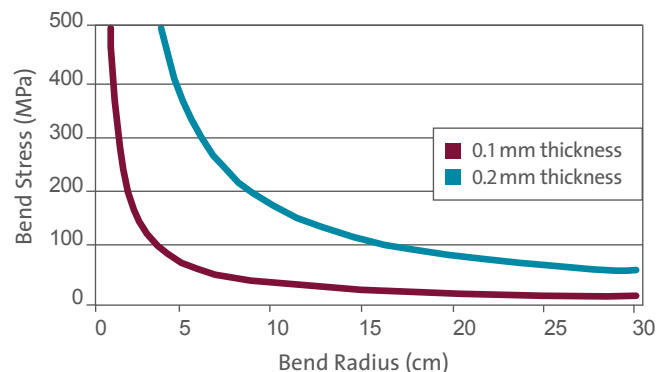
## Contact Us

For additional information about handling and safety guidelines, product dimensions and availability, contact [Willow@corning.com](mailto:Willow@corning.com).

## Optical Transmission



## Bend Stress



\* Bend radius can be affected by handling.