CORNING

Willow® Glass

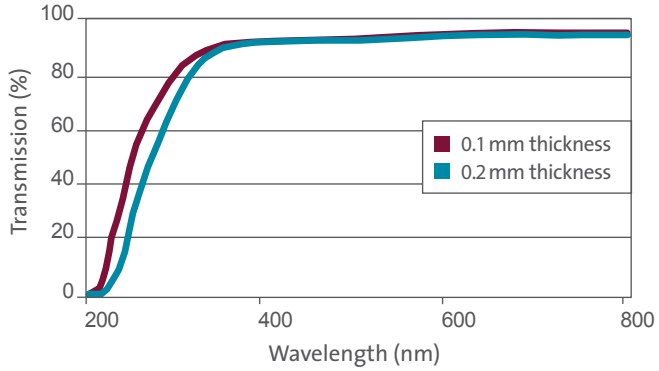
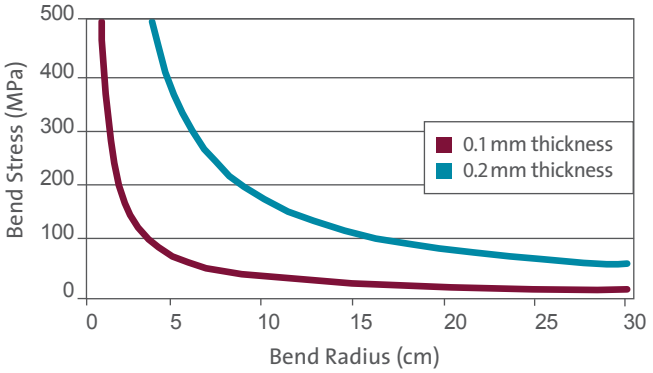
The future is flexible: Corning Willow Glass

- 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.

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

Optical Transmission



Bend Stress