

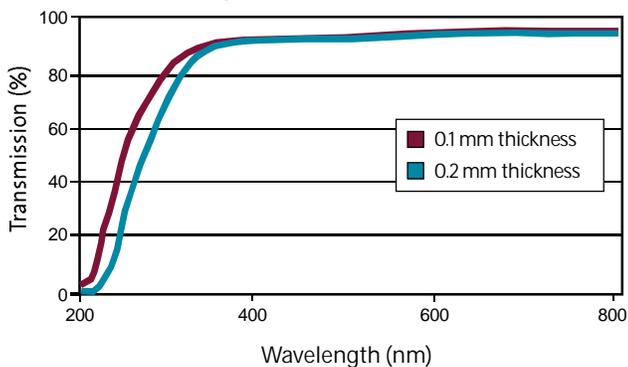
Fact Sheet for Barrier Applications

- Corning® Willow™ Glass provides a thin, flexible, transparent barrier to moisture and oxygen for use in multiple applications.
- Manufacturers can use Willow Glass in sheet or roll-to-roll processes while adding minimal weight and maintaining its inherent flexibility characteristics.
- Corning's proprietary glass composition and high-precision fusion manufacturing process expertise enables Willow Glass to provide a high-performance, cost-effective alternative to polymer barrier films or thicker glass.
- Willow Glass is available in 100µm and 200µm thickness rolls, one meter wide or less and up to 300 meters long.

Water Vapor Transmission Rates (WVTR)

Testing Method	Conditions	WVTR Result	Notes
Mocon: Aquatran Next Generation Prototype	50°C, 100% RH	<5x10 ⁻⁵ g/m ² - day	Below system detection limit
Georgia Tech: Ca-patch Electrical Sensor	50°C, 85% RH	<6x10 ⁻⁵ g/m ² - day	Limited by edge sealant performance

Optical Transmission



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 _p /E)	—	5 - 6
Surface Roughness	Ra (nm)	< 0.5
	Rpv (nm)	< 20

Contact Us

For additional information about product dimensions, availability, and stability, contact Willow@corning.com.