

# Typical Values of Coverglass (Borosilicate Glass)

## Standard Thicknesses

Size	MM	Inches
#00	.06-.08	.002-.0033
#0	.08-.12	.0033-.0051
#1	.13-.17	.0051-.0063
#1 1/2	.16-.19	.0063-.0075
#2	.19-.23	.0075-.0098
#3	.28-.32	.011-.0125
#4	.32-.42	.015-.016
#5	.50-.60	.020-.024

## Chemical Composition (Approximate)

Silicon Dioxide	64%
Boron	9%
Zinc Oxide	7%
Potassium Oxide	7%
Sodium Oxide	7%
Titanium Oxide	3%
Aluminum Oxide	3%

## Physical Properties

Annealing Temperature	550°C
Softening Temperature	720°C
Working Temperature	978°C
Poisson's Ratio	0.22
Density	2.53 gm/cm <sup>3</sup>
Light Transmission	91.7% at 1.1 mm thickness
Coefficient of Expansion 0-300°C	74×10 <sup>-7</sup> °C
Young's Modulus	7.9×10 <sup>3</sup> kg per sq mm
Refractive Index	1.523 at 589.3 nanometers