CSG KK3 High Aluminum Glass

CSG KK3 High Aluminum Glass TDS

Product Information:

Model: NBO-A

Thickness: 0.2-6mm

Size: 1100mm*1300mm Can be customized

Size tolerance: +/-1mm

Shear modulus: 29GPa

Poisson's ratio: 0.217

Vickers hardness: (200gf,20s)

Before toughening: 605Kgf/mm2

After toughening: 685Kgf/mm2

Product Characteristics

Super white color, high transmittance

High hardness, good scratch resistance

High bending strength, good impact resistance

Good resistance to chemical erosion

Product Application

Ideal cover protection glass for electronic displays

-Smartphones

-Tablet PCs

-Mobile display devices

Touch screen devices

Optical components

High-speed railroad locomotive, security and other special glass equipment

Chemical Tempering Properties

Surface compressive stress CS >=700MPa@40 μ mDOL

Stress layer depth DOL >40 μ m

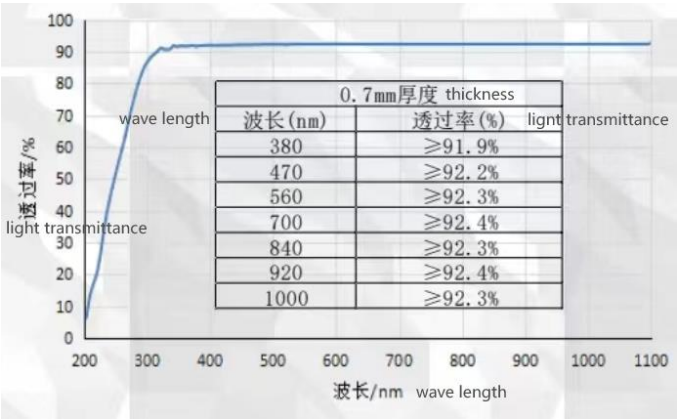
Optical Properties

Refractive index (@589.3nm)

Intermediate layer 1.5139

Tempered layer 1.5147

Photoelasticity coefficient 27.5nm/cm/Mpa



Thermal Properties

Coefficient of thermal expansion CTE 95X10 -7/° C (20-120° C)

98X10 -7/° C (100-300° C)

Softening point (10 7.6 poises) 853° C

Annealing Point(10 13.2 poises) 611° C

Strain Point(10 14.7 poises) 558° C

Physical Properties

Density: 2.47g/cm3

Young's modulus: 74GPa

Chemical Resistance

Chemical Reagent	Time	Temperature(℃)	Loss of weight (mg/cm2)
NaOH-5%	6H	95±0.5	1.01
HCl-5%	24H	95±0.5	0.06
NH_4F-HF-10%	20MIN	20±0.5	0.98
HF-10%	20MIN	20±0.5	6.52
H_2O			DIN ISO 719