

Overview:

Soda lime glass, also called soda lime silica glass and clear glass, is the most prevalent type of glass. It accounts for about 90% of manufactured glass. Soda lime glass is composed of about 70% silica (silicon dioxide), 15% soda (sodium oxide), and 9% lime (calcium oxide), with much smaller amounts of various other compounds.

Features & Benefits

- Soda lime glass is inexpensive, chemically stable, reasonably hard, and extremely workable.
- Soda lime can be heat tempered and also chemically strengthened.

Material Properties

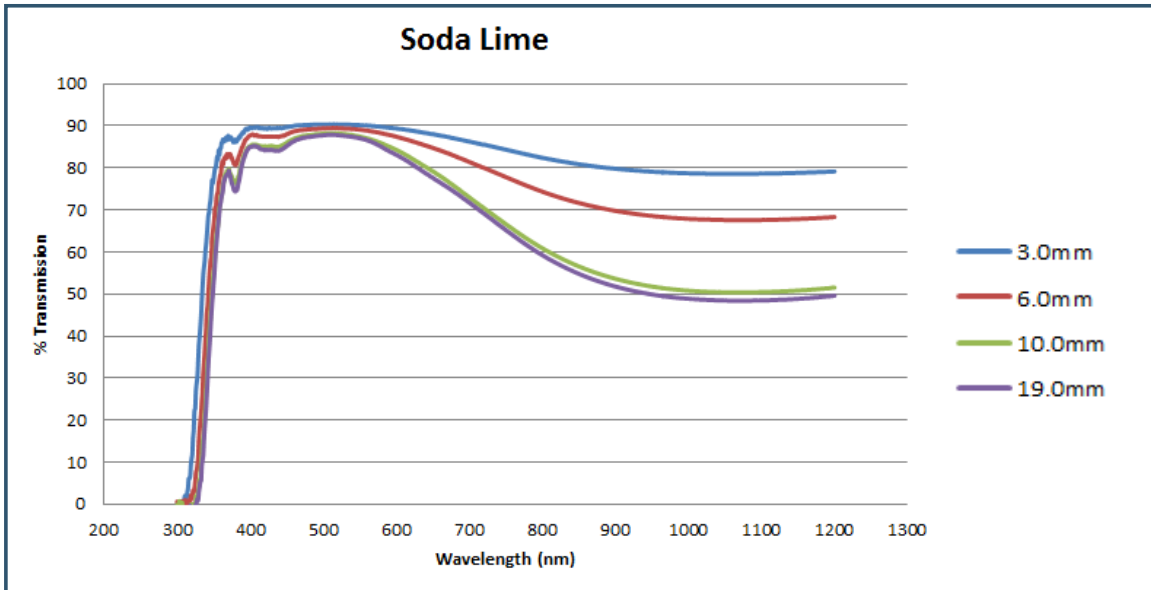
Modulus of Elasticity (Young's)	10.4 x 10 ⁶ psi	72 GPa
Modulus of Rigidity (Shear)	4.3 x 10 ⁶ psi	30 GPa
Bulk Modulus	6.2 x 10 ⁶ psi	43 GPa
Poisson's Ratio	0.23	0.23
Refractive Index	1.523	1.523
Density	156 lb/ft ³	2500 kg/m ³
Coefficient of Thermal Stress	50 psi/°F	0.62 MPa/°C
Thermal Conductivity at (75°F)	6.5 Btu.in/hr.°F.ft ²	0.937 W.m/m ² .°C
Specific Heat at (75° F)	0.21 Btu/lbm.°F	0.88 kJ/kg.°C
Coefficient of Linear Expansion (75-575°F)	4.6 x 10 ⁻⁶ in/in.°F	8.6 x 10 ⁻⁶ mm/mm.°C
Hardness (Mohs Scale)	5-6	5-6
Softening Point (ASTM C 338)	1319°F	715°C
Annealing Point (ASTM C 336)	1018°F	548°C
Strain Point (ASTM C 336)	952°F	511°C
Specific Gravity	2.53	2.53
Emissivity(Hemispherical) at (75°F)	0.84	0.84

Dimensions of Standard Products

Thickness	0.019" to 1"	0.5 mm to 25.4 mm
Stock Sizes	96" x 72"	2440 mm x 1830 mm

Performance Data

Transmission Curve



Reflectance Curve

