

Technical Specification Sheet

Clear Glass



Chemical Composition:

- Silicon Dioxide (69% to 74%)
- Calcium Oxide (5% to 14%)
- Sodium Oxide (10% to 16%)
- Magnesium Oxide (0% to 6%)
- Aluminum Oxide (0% to 3%)
- Other (0% to 5%)

Meets Standards:

- ASTM C1036-11
- EN 572-9

Country of Origin: Turkey

Manufacturer: Sisecam

Application: double glazing, laminating, tempering, heat-strengthening, bending, coating...

Physical and Mechanical Properties

Characteristic

- Density (at 18 °C)
- Knop hardness
- Young's modulus
- Poisson's ratio
- Specific heat capacity
- Nominal value of avg coefficient of linear expansion between 20 °C and 300 °C
- Resistance against temperature differential and sudden temperature change
- Thermal conductivity
- Mean refractive index to visible radiation (at 589,3 nm)
- Emissivity (corrected)
- Characteristic bending strength

Symbol

Value and unit

- ρ 2 500 kg/m³
- HK0.1/20 6 GPa
- E 7 x 10¹⁰ Pa
- μ 0,2
- Cp 0,72 x 10³ J/(kg.K)
- α 9 x 10⁻⁶/K
- 40 Kb
- λ 1 W/(m.K)
- n 1,5
- ϵ 0,837
- F_{g,kk} 45 N/mm²

Glass Lite Tolerances (Stock Sheet Size)

Nominal Thickness	Thickness Tolerances	Dimension Tolerances
2.5 mm (3/32") - 6 mm (1/4")	±0.2 mm	±4 mm
8 mm (5/16") - 12 mm (1/2")	±0.3 mm	±4 mm
19 mm (3/4") - 25 mm (1")	±1.0 mm	±5 mm