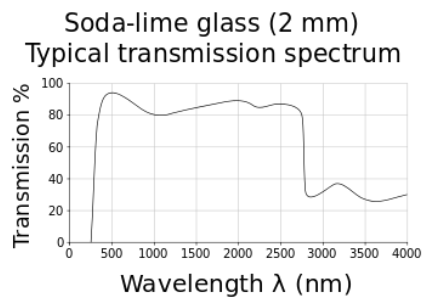
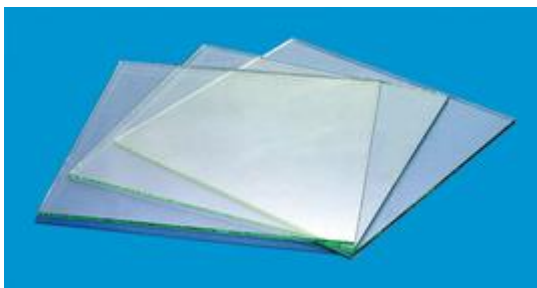


Soda-lime glass

Soda-lime glass, also called soda-lime-silica glass, is the most prevalent type of glass.

Soda-lime glass is relatively inexpensive, chemically stable, reasonably hard, and extremely workable.

Because it is capable of being re-softened and re-melted numerous times, it is ideal for recycling.^[6]



Properties	Soda-lime glass
Chemical composition, wt%	73 SiO ₂ , 14 Na ₂ O, 9 CaO, 4 MgO, 0.15 Al ₂ O ₃ , 0.03 K ₂ O, 0.02 TiO ₂ , 0.1 Fe ₂ O ₃
Viscosity log(η, dPa·s or Poise) = A + B / (T in °C - T₀)	550 °C (1,022 °F)–1,450 °C (2,640 °F): A = -2.585 B = 4215 T ₀ = 263
Glass transition temperature, T_g	564 °C (1,047 °F)
Coefficient of thermal expansion, ppm/K, ~100 °C (212 °F)–300 °C (572 °F)	9.5

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Density at 20 °C (68 °F), g/cm ³	2.53
Refractive index n _D at 20 °C (68 °F)	1.520
Dispersion at 20 °C (68 °F), 10 ⁴ ×(n _F -n _C)	87.7
Young's modulus at 20 °C (68 °F), GPa	74
Shear modulus at 20 °C (68 °F), GPa	29.8
Liquidus temperature	1,000 °C (1,830 °F)
Heat capacity at 20 °C (68 °F), J/(mol·K)	48
Chemical durability, Hydrolytic class, after ISO 719	3...4
Critical stress intensity factor (K_{IC}), MPa.m^{0.5}	0.75

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