

CORNING

Corning® ATG™

Product Information Sheet

Corning® ATG™ offers a unique combination of thin, lightweight, and tough properties, enabling a new generation of innovative windows.

Benefits

- Allows for thinner, lighter window designs, such as triple and quadruple paned windows, laminated glass construction, and laminated stacks for smart windows
- Protective glazing offering excellent durability and scratch resistant surface
- Enables innovative new window designs with greater design freedom to optimize energy, acoustic, and safety performance as well as frame width
- Optically neutral, pristine surface with improved IGU (Insulated Glazing Unit) seal integrity

Material Properties

Glass Type	Boro-Aluminosilicate
Form	Fusion-drawn sheets
Sheet Size (max)	2200 mm x 3200 mm
Thickness	0.5 mm to 0.7 mm ±10%
Flatness	<1 mm/m
Squareness	±3 mm (ASTM C1036)
Blemishes	ASTM C1036 Type 1, Class 1, Q3; EN 572-4
Coating	Compatible with LowE coatings

Thermal & Mechanical Properties

Thermal Expansion	$32 \times 10^{-7} / ^\circ\text{C}$
Thermal Conductivity	1.09 W/m/K (23°C)
Vickers Hardness (200 g load, 25 sec dwell)	560
Density	2.38 g/cc
Fracture Toughness	0.8 - 0.9 MPa·m ^{0.5}
Youngs Modulus	74 GPa
Shear Modulus	30 GPa
Poisson Ratio	0.23

International Glazing Database Registration

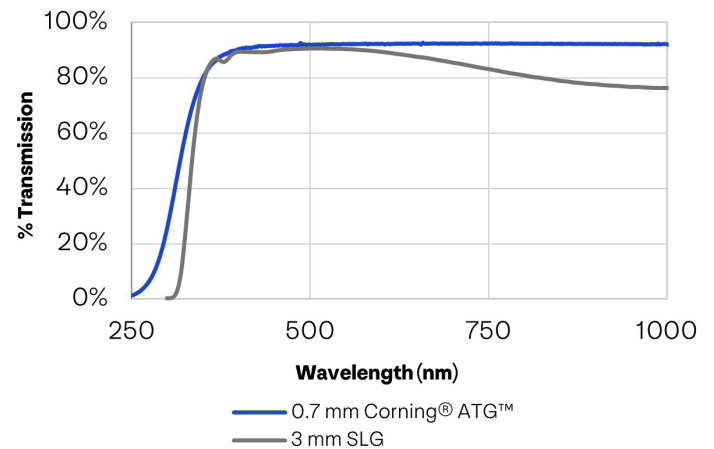
Glazing Type	ID	Product Name
Monolithic	22500	0.7 mm ATG
Monolithic	22501	0.5 mm ATG

Innovative Windows



Lightweight	Energy Efficient	Acoustic Performance
Up to 50% glass weight reduction in IGU	Enhanced thermal performance within same IGU footprint	Improved outside noise reduction with less weight

Superior Optical Quality



Lighter Weight

Glass	Thickness (mm)	Weight per area (kg/m ²)
Corning ATG	0.5 / 0.7	1.2 / 1.7
Soda Lime Glass	3 / 4 / 6	7.5 / 10 / 15