

Description:

Glaverbel float glass is manufactured in a wide variety of sizes and thicknesses down to 0.4 mm. The manufacturing of thin and extra-thin glasses according to the float process guarantees optimal surface evenness, minimal variation in thickness and, within a single batch of glass, lower thickness tolerances than those obtained through any other manufacturing process.

Available Thicknesses:

Thickness	Tolerance	Thickness	Tolerance	Thickness	Tolerance
0.40mm	± 0.05mm	0.95mm	± 0.05mm	1.60mm	± 0.10mm
0.55mm	± 0.05mm	1.10mm	± 0.05mm	2.10mm	± 0.10mm
0.70mm	± 0.05mm	1.25mm	± 0.05mm		

Mechanical and Thermal:

Specific Weight (103Kg.m-3)	2.49 ± 0.01
Young's Modulus	70 ± 2 GPa
Thermal Coefficient of Expansion (0-300°C)	= 84 x 10 ⁻⁷ per °C
Strain Point	490 ± 10°C

Chemical:

Hydrolytic Resistance (ISO 719)	Class 3
(DIN 12.111)	Class 3

Electrical:

Dielectric Constant @ 25°C; 1 MHz	7.6
Specific Resistivity @ 25°C; 1000 Hz	9.7 (Ω cm)

Applications:

Optical substrates, displays for computers or electronic devices, special mirrors (cosmetic, photographic, automotive), thin film coatings substrates.

Flatness, parallelism, cutting tolerances, roughness, cosmetic defects and visual inspection all conform to the specifications to be agreed upon by Precision Glass & Optics and the customer.

Properties:

Refractive Index: $n_d(\lambda = 400-700 \text{ nm}) = 1.52 \pm .005$

Transmission: (estimated at 1 mm thick)

@ 313 nm	50%	380-780 nm	91.1%
@ 330 nm	80%	800-2500 nm	88% Avg.

