

Description:

0211 is drawn by a unique process which imparts a practically flawless, fire-polished surface suitable for many applications without the grinding and polishing usually associated with other glasses. Perhaps the most unique feature of 0211 is its exceptional thinness and the uniformity to which it is held. In addition, 0211 offers all the permanence, protection and transmittance afforded by glass. Although containing alkali, 0211 has a soda content approximately one-half that found in soda lime glasses. When subjected to a soda extraction test this glass yields values that are nominally 25% of those measured for soda lime glasses.

Available Thicknesses:

Ref. Number	Thickness	Tolerance	Sheet Sizes (approx. quality area)
#00	.0026"	± .0007"	12" x 15"
#0	.0042"	± .0009"	12" x 15"
#1	.0057"	± .0006"	14.25" x 15"
#1½	.0069"	± .0006"	14.25" x 15"
#2	.0087"	± .0011"	15" x 15"
#3	.0118"	± .0020"	13" x 14"
#4	.0210"	± .0040"	14" x 14"

Properties:

Refractive Index: $n_d (\lambda = 588 \text{ nm}) = 1.523$

Transmission: (estimated at .23 mm thick)

@300nm	12%	@350-2500nm	90%+
@310nm	45%	@3650nm	70%
@320nm	70%	@4700nm	40%

Chemical:

Weathering	1	
Acid Durability	2 (5% HCl @ 95°C, 24 hrs)	
Classification		Thickness loss (in.)
1		<10 ⁻⁶
2		10 ⁻⁶ to 10 ⁻⁵
3		10 ⁻⁵ to 10 ⁻⁴
4		>10 ⁻⁴

Mechanical and Thermal:

Density	2.53 g/cm ³
Young's Modulus	7.59 x 10 ³ Kg/mm ²
Thermal Coefficient of Expansion (0-300°C)	= 73.8 x 10 ⁻⁷ /°C

Electrical:

Dielectric Constant @ 20°C; 1 MHz	6.7
Loss Tangent @ 20°C; 1 MHz	0.46%

Applications:

Cover glass, photoconductors, thin & thick film substrates, touch panels, protective covers, magnetic film memory devices and flat panel display 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.

