SUNMAX PREMIUM



Extra clear float glass for solar applications



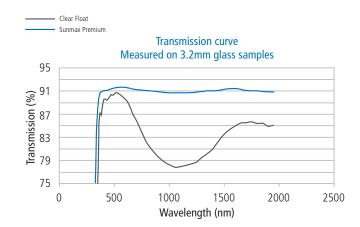
Sunmax Premium is an extra clear float glass especially optimized for solar applications. Combined with the excellent durability of glass, Sunmax Premium is the product of choice for photovoltaic modules and solar mirrors.

Sunmax Premium conforms to EN572 and can be delivered fully tempered as per EN12150.

Sunmax Premium

Applications

- Cover glass for photovoltaic modules (crystalline, CIGS)
- Front glass for thin film Si and CdTe
- Substrate for solar mirrors



Performances

Main Characteristics*

Light Transmission (%)	1mm - 1/25": 91.8	Illuminant D65 at 2° (acc. +/- 0.2%)
	4mm - 5/32": 91.6	Illuminant D65 at 2° (acc. +/- 0.2%)
Energy Transmission (%)	1mm - 1/25": > 91.7	ISO9050
	4mm - 5/32": from > 90.7 to 91.1	ISO9050
Specific weight (kg/m²)	1mm - 1/25": 2.5	
	4mm - 5/32": 10	

Processing conditions and dimensions depending on the applications.

AGC can help evaluating these values according to other standards and/or to the specificities of the final application.

Mechanical Characteristics*

Mechanical strength (MPa)		45	Annealed
		70	Toughened
		120	Tempered, EN12150
Young modulu	s (GPa)	70	EN572
Poisson ratio		0.2	EN572
Hardness	Mohs (scratch hardness)	6	
	Knoop (identation hardness)	470	Indenter load 500g
Density (kg/m³)		2500	EN572, at 18°C

Thermal characteristics*

Hemispherical emissivity (corrected)	0.84	Between -18°C and 66°C
Expansion coefficient (10-6 1/K)	9	EN572, between 20°C and 300°C
Specific heat (J/kg/K)	720	EN572
Thermal conductivity (W/m/K)	1	EN572
Softening point (°C)	722	
Annealing point (°C)	552	
Strain point (°C)	500	

Chemical composition*

Silicon dioxide (SiO2, %)	69 to 74	EN572
Sodium oxide (Na2O, %)	10 to 16	EN572
Calcium oxide (CaO, %)	5 to 14	EN572
Magnesium oxide (MgO, %)	0 to 6	EN572
Aluminum oxide (Al2O3, %)	0 to 3	EN572
Trace elements (FeO, etc., %)	< 5	





AGC is committed to environmental stewardship through the use of recyclable materials and sustainable process in the manufacturing and distribution of our state-of-the-art, energy efficient flat glass products.

*The information contained in this datasheet is intended to assist you in designing with AGC materials. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. The user is responsible for determining the suitability of AGC materials for each applications.

AGC GLASS EUROPE, A EUROPEAN LEADER IN FLAT GLASS

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