PATTERNED GLASS

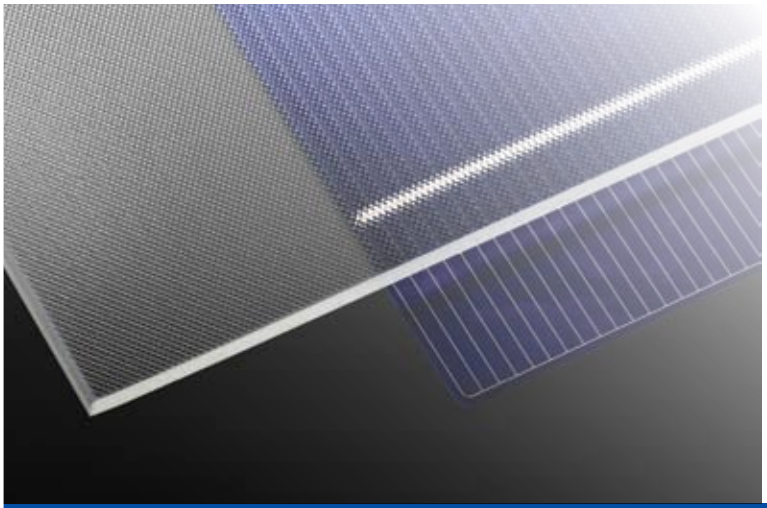
SOLITE®

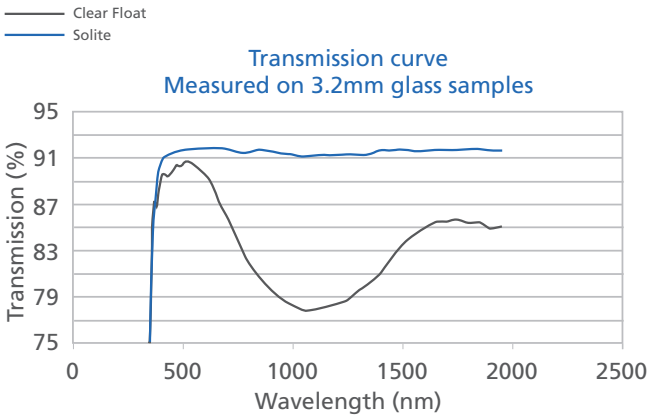
EXTRA CLEAR PATTERNED GLASS FOR SOLAR APPLICATIONS

SOLITE® is an extra clear patterned glass formed with a diamond pattern on one face and a smooth pattern on the other face. This ensures the highest energy transmission over the whole solar spectrum.
Combined with the excellent durability of glass, SOLITE® is the product of choice for photovoltaic modules (crystalline and CIGS, where its pattern allows for an easy lamination) and for thermal collectors. Through its pattern, SOLITE® also ensures non-blinding reflection and a better aesthetics to the solar modules.
SOLITE® conforms to EN572 and is delivered fully tempered as per EN12150. It can be supplied with AGC Solar Plus Anti Reflective Coating (SPARC).

PRODUCT DESCRIPTION

Type	Extra clear patterned glass
Pattern	Diamond/Smooth
Applications	Cover glass for photovoltaic modules (crystalline or CIGS)
	Cover glass for thermal collectors





AGC Solar has a long history as a key player in the solar glass business. As part of the world leader in glass production, it benefits from the latest glass technologies to make renewable energy a success. It offers glass solutions for photovoltaic modules, thermal collectors and concentrating solar mirrors. It aims for the highest production standards for increased performance and works through a worldwide network.

MAIN CHARACTERISTICS *

Light Transmission (%)	3.2mm - 1/8": 91.6	Illuminant D65 at 2° (acc. +/- 0.2%)
	4mm - 5/32": 91.5	Illuminant D65 at 2° (acc. +/- 0.2%)
Energy Transmission (%)	3.2mm - 1/8": 91.1	ISO 9050 AM1.5 (acc. +/- 0.2%)
	4mm - 5/32": 90.9	ISO 9050 AM1.5 (acc. +/- 0.2%)
Typical length	From 950 to 2150mm (from 37" to 85")	
Typical width	From 650 to 1220mm (from 26" to 48")	
	Other dimensions available on request.	
Specific weight (kg/m²)	3.2mm - 1/8": 8	
	4mm - 5/32": 10	
Processing conditions	Tempered, C-grinded	EN12150

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

MECHANICAL CHARACTERISTICS *

Mechanical strength (MPa)		90	EN12150
Young modulus (GPa)		70	EN572
Poisson ratio		0.2	EN572
Hardness	Moh (scratch hardness)	6	EN572
	Knoop (identation hardness)	470	Indenter load 500g
Density (kg/m³)		2500	EN572, at 18°C

THERMAL CHARACTERISTICS *

Hemispherical emissivity	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 (NaO, %)	12 to 16	EN572
Calcium oxide (CaO, %)	5 to 12	EN572
Magnesium oxide (MgO, %)	0 to 6	EN572
Aluminium oxide (Al2O3, %)	0 to 3	EN572
Trace elements (FeO, etc., %)	<1	

AGC is commited 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.
In North America, the product performs to the appropriate ASTM standards.
**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.*

FOR MORE INFORMATION

Worldwide: **sales@agc-solar.com**
Europe: **sales.europe@eu.agc-solar.com**
North America: **sales.northamerica@na.agc-solar.com**
Japan: **sales.japan@jp.agc-solar.com**
China: **sales.china@jp.agc-solar.com**
Asia: **sales.asia@jp.agc-solar.com**
India: **ssheikh@aisglass.com**

www.agc-solar.com