

AV-LITE S

AV-LITES is an extra clear patterned glass formed with a smooth pattern on both faces. This ensures the highest energy transmission over the whole solar spectrum. Combined with the excellent durability of glass, AV-LITES is the product of choice for photovoltaic modules (crystalline and CIGS,

where its pattern allows for an easy lamination) and for thermal collectors (for which AV-LITES is labelled U1 from SPF). Through its pattern, AV-LITES also ensures non-blinding reflection and a better aesthetics to the solar modules. AV-LITES conforms to EN572 and is delivered fully tempered as per EN12150. It can be supplied with AV Solar Plus Anti Reflective Coating .

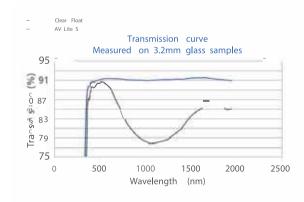
PRODUCT DESCRIPTION

Type Extra clear patterned glass

Pattern Smooth / Smooth

Applications Cover glass for photovoltaic modules (crystalline or CIGS)

Cover glass for thermal collectors



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	
	4mm - 5/92": 90.9	150 9050	
Certification	3.2mm - 1/8"	SPF measurement, labelled U1	
	4mm + 5/32"	SPE measurement, labelled U1	
Maximal length	From 950 to 2150mm (from 37" to 85")		
Maximal width	From 650 to 1020mm (from 26" to 40")		
	Other dimensions available on request.		
Specific weight (kg/m²)	3.2mm - 1/8*: 8		
	4mm - 5/32": 10		
Processing conditions	Tempered, C-grinded EN1863		

Maximal width		From 650 to 1020mm (from 26" to 40")	
		Other dimensions available on re-	quest
Specific weight (kg/m²)		3.2mm - 1/8": 8	
		4mm - 5/32": 10	
Processing conditions		Tempered, C-grinded	EN1863
AV SOLAR	can help evaluating these values accordi	ng to other standards and/or to the specifi	cities of the final application.
MECHANIC	AL CHARACTERISTICS *		
Mechanical	strength (MPa)	90	EN1288
Young mod	ulus (GPa)	70	EN572
Poisson ratio	9	0.2	EN572
Hardness	Mohs (scratch hardness)	6	
	Knoop (identation hardness)	470	Indenter load 500g
Density (kg/	m²)	2500	EN572, at 18°C
Hemispheric	CHARACTERISTICS * cal 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/hr/K)		1	EN572
Softening point (°C)		722	
Annealing p	ioint (°C)	552	
Strain point (°C)		500	
CHEMICAL	COMPOSITION *		
Silicon diaxide (SiO2, %)		69 to 74	EN572
Sodium oxide (Na2O, %)			
Sodium oxid	ie (Na2O, %)	10 to 16	EN572
	de (Na2O, %) de (CaO, %)	10 to 16 5 to 14	EN572 EN572
Calcium oxi Magnesium	de (CaO, %) oxide (MgO, %)		
Calcium oxi Magnesium	de (CaO, %)	5 to 14	EN572

Quality control



Safety package



Worldwide logistics







alliaverre FACTORY



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