

EMPOWERING

AGC

SOLAR EFFICIENCY

S O L A R

MODULE MATERIAL

PV200

High strain point glass substrate for photovoltaic solar cell

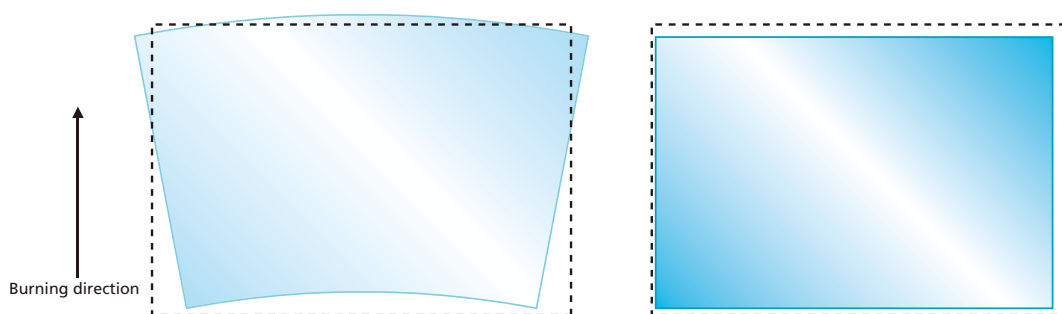
Much less deformation in the heating process than soda-lime glass. Small variations in thermal shrinkage after the heating process. Suits processes for large-size substrates.

PRODUCT DESCRIPTION

Applications

Back glass for thin film photovoltaic module (CIGS)

Transformation of the glass in heat-treatment process (550°C-600°C)



<Normal Glass>

Distortion point temperature 511°C
Asymmetry transformation
Shrinkage rate unevenness size

<PV200>

Distortion point temperature 570°C
Symmetry transformation
The shrinkage rate unevenness small

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Characteristics of PV200

Item			PV200	AS Soda-lime glass
Thermal Properties	Thermal Expansion Coefficient (50~350°C, 10 ⁻⁷ /°C)		83	87
	Strain Point	(°C)	570	511
	Softening Point	(°C)	830	735
	Annealing Point	(°C)	620	554
Mechanical Properties	Density	(g/m ³)	2.77	2.49
	Young's Modulus	Gpa	76	72
	Shear Modulus	Gpa	31	29
	Poisson's Ratio		0.21	0.21
Electrical Properties	Bulk Resistivity at 150°C	log ρ (Ω · cm)	12	8.5
	Dielectric Constant at 1MHz		7.9	7.6
Optical Properties	Refractive Index N _D		1.55	1.52