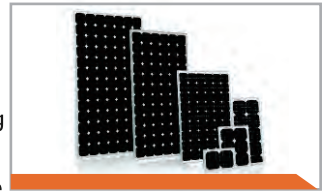


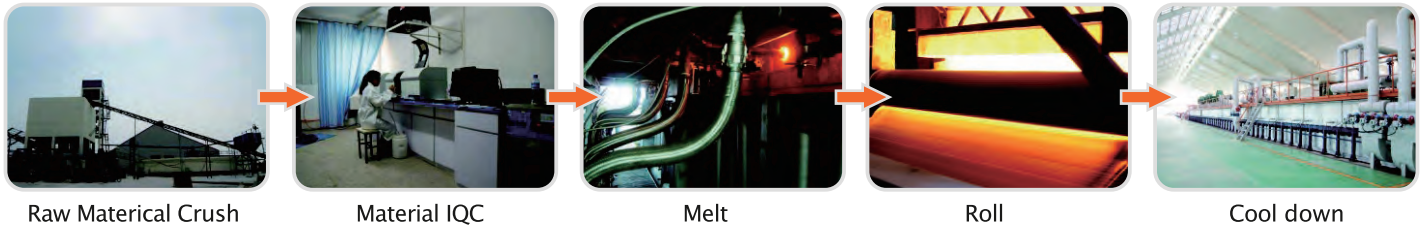
- The transmittance of our coated solar glass is over 94.5% !
- Proprietary 800°C online coating technology.
- Anti-aging, acid-resistant, anti-fog, abrasion-resistant!
- Topray solar glass is low-iron, rolled product formed with pattern on one surface. The pattern provides the desired obscurity while retaining high-transmission values.
- It is the best for making PV modules and solar flat collectors.

Application of our solar glass

- Our coated solar glass can improve the output power of the solar module at least 3.5%.
- Solar modules that integrated our solar glass withstand high level of wind loads. (2400Pa) and snow loads (5400Pa).
- Anti-reflective, hydrophobic layer of solar module surface improves light absorption and reduces surface dust.
- Solar flat collector withstand high pressure-Bearing up to 0.9MPa.
- All our solar collector are with Coated PV Glass, the light transmittance rate reach 95%, which can guaranteeing 2-3% more overall yield compared to conventional collector.
- Anti-reflective, hydrophobic layer of solar module surface improves light absorption and reduces surface dust.



Production process of solar glass- Raw plate



Production process of solar glass- AR coating



* Please refer to Topray Safety and Installation Manual for details .
**Please refer to Topray Limited Product Warranty for details .

Basic information

Glass type	Super white, patterned. Rolled
Glass form	Raw, Tempered, AR coated, Back print, Hole drilling
Glass thickness	3.2mm, 2.0mm, 4.0mm, 2.5mm
Applicable size	1298 X 2500mm (210 solar cell) 1128 X 2500mm (182 solar cell) 1033 X 2500mm (166 solar cell) 996 X 2500mm (158.75 solar cell) 986 X 2500mm (157 solar cell)

OPTICAL PROPERTY

Reflectance	7.6%
Transmittance Rate of PV Glass	>91.6%
Transmittance Rate of ARC PV Glass	94.5%

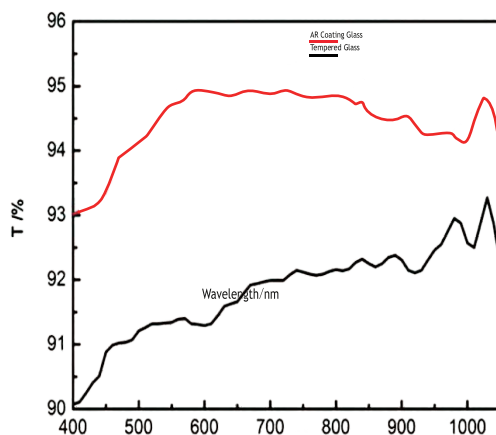
THERMAL PROPERTY

Expansion Co-efficiency Linear in the range of 20°C-300°C Specific Heat	8.64X10-6 0.2J / 0.2J / Kg.K
Calculated thermal conductivity at 20°C	1.0W/mK
Softening Point	743.3°C
Annealing point	577°C
Strain point	537.4°C

MECHANICAL PROPERTY

Mohs' (scratch) hardness	5
Knoop Harness number Indenter load-500g	470
Poisson's ratio	0.217
Density	2.4872g/cm ³
(Young's) Modulus of Elasticity	70.000N/mm ²
Tensile Strength	25N/mm ²
Compressive Strength	700-900N/mm ²
Mechanical strength	90N/mm ²

TRANSMITTANCE CURVE COMPARISON



QUALIFICATIONS AND CERTIFICATES



NOTE: READ SAFETY AND INSTALLATION INSTRUCTIONS OR CONTACT THE TECHNICAL SERVICE FOR FURTHER INFORMATION BEFORE USING THE PRODUCT.
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