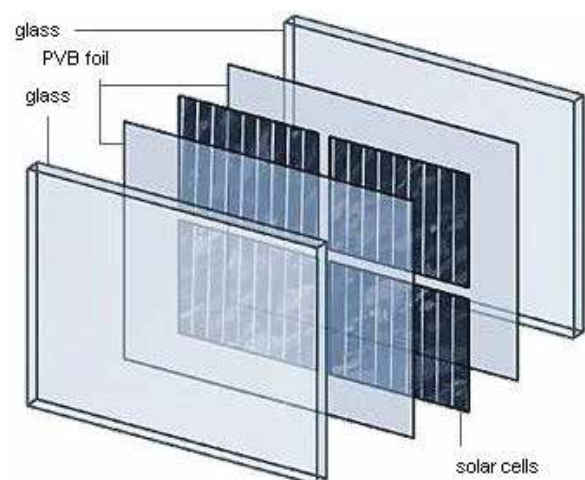




2 MM

FULLY TEMPERED SOLAR GLASS

Trend setting technology that fully tempers glass which floats on an air cushion



New generation
frameless
photovoltaic
modules

Thin glass for
technologies
of the
future

Tempered as
per
EN 12150-1:2015
fully qualifying it
as a
safety glass

**ONE
TECHNOLOGY
SIX
ADVANTAGES**

No roller waves,
white stripes &
pick ups on
processed glass

Quality, Long term
performance
reliability & Cost
Effectiveness

Environment
friendly and
Sustainable
Technology

Processing capability at a glance

Thickness range: 2.0 mm to 6.0 mm (Tolerance ± 0.2 mm)

Available textures: Prismatic-Matt, Matt-Matt

Note: Fully tempered back glass of 2.0 mm is also available on customer request.

Dimensional parameters:

Fully tempered AR Coated glass as per EN 12150-1:2015

Glass thickness	Maximum size
2.0 mm	1700 mm X 1000 mm
2.5 mm	2000 mm X 1000 mm
2.8 mm	2200 mm X 1200 mm
3.2 mm	3200 mm X 1200 mm

Dimensional tolerance: ± 2.0 mm

Diagonal tolerance: ≤ 3.0 mm

Mechanical strength:

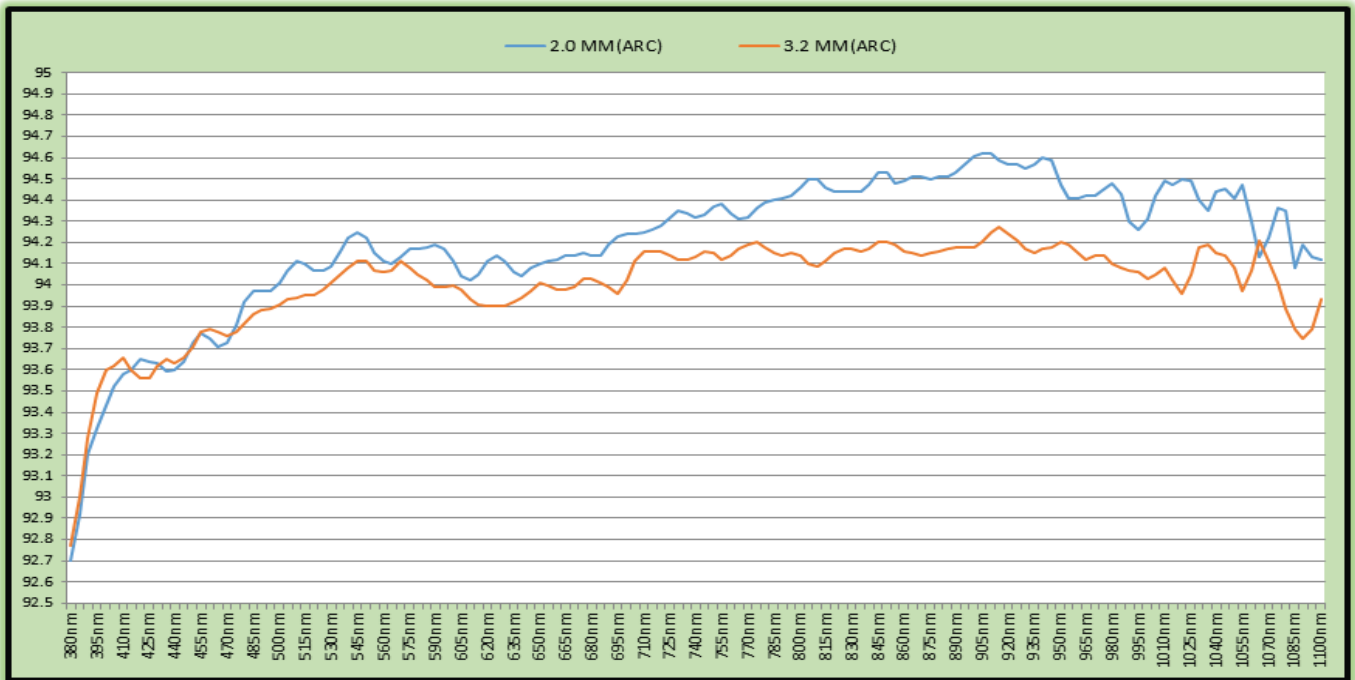
Minimum 90 MPa as per EN 12150-1:2015.

Glass-to-glass modules made with fully tempered 2.0 mm glass can withstand high wind loads > 2400 Pa and snow loads > 5400 Pa.

Light transmission:

Fully tempered glass $\geq 91.5\%$

Fully tempered AR Coated glass $\geq 94\%$

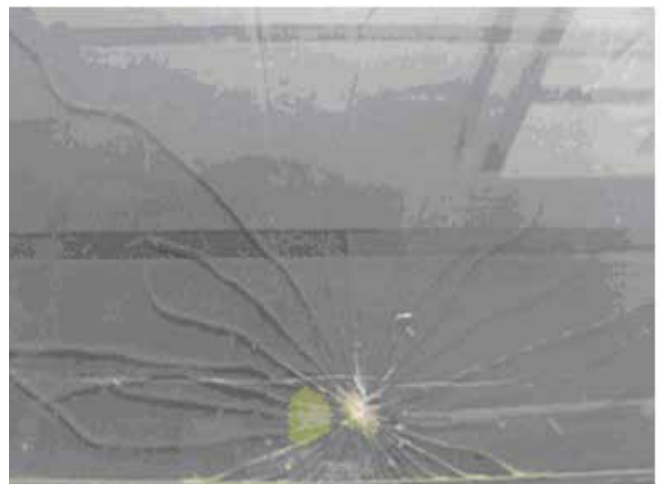


A typical L T curve of 2.0 mm and 3.2 mm AR Coated textured glass

Fragmentation pattern of 2 mm glass:



Fully tempered glass



Heat strengthened glass

Tempered glass has a breakage of small particles, that are much safer than the large and sharp pieces resulting from a broken lite of heat strengthened glass which qualifies it as a safety glass for BIPV, rooftops and claddings.

2 MM FULLY TEMPERED SOLAR GLASS

ADVANTAGES OF GLASS TO GLASS MODULES

- 1** Gains 30% increase in power output by using bifacial cells.
- 2** Low weight frameless modules on rooftops would not require expensive structural reinforcements.
- 3** Module failures are often traced to a faulty backsheet. Using a safety glass to protect the back enhances module life and reduces failure risks.
- 4** Lower absorption by thinner glass hence higher irradiance reaching the cells.
- 5** More uniform and better heat dissipation. Lower temperature leads to higher yield.
- 6** Fully glass encapsulated panel offers highest protection against acid, alkali, corrosive chemicals and salty environments.
- 7** Protection against humidity and UV.
- 8** Service life expected to reach 40 years owing to higher durability and minimal degradation.

Our facility is fully accredited with:
ISO 9001:2008
ISO 14001:2004
BS OHSAS 18001:2007



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