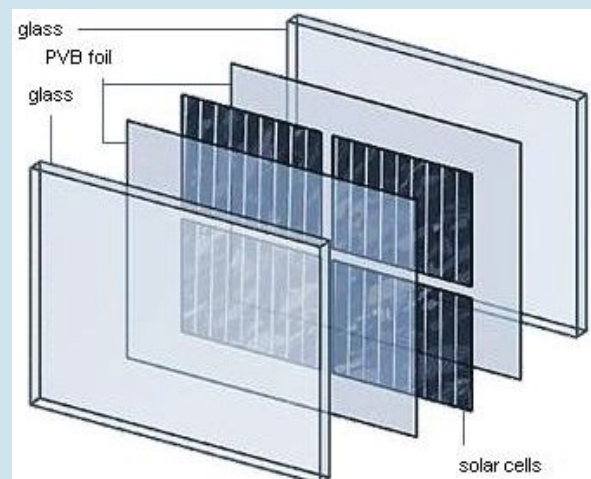




2 MM FULLY TEMPERED SOLAR GLASS

Best trend setting technology from one of the world's renowned equipment supplier of glass processing using AEROFLAT air-cushion technology



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

2 MM FULLY TEMPERED SOLAR GLASS

ADVANTAGES OF GLASS TO GLASS MODULES

- 1** Low weight frameless modules suitable for rooftops and also for existing rooftops without the need for expensive structural reinforcements.*
- 2** Elimination of weak link i.e., backsheet by a glass sheet to enhance module life and reduce module failure.
- 3** Higher panel efficiency due to lesser absorption and higher irradiance reaching the cells.
- 4** Heat dissipation more uniform and better. Lower temperature leads to higher yield.
- 5** Can withstand acid, alkali including ammonia and salty environments. No penetration of harmful vapours or moisture.
- 6** Protection against humidity and UV as well.
- 7** The high durability and minimal degradation ensure a maximum service life for the module.
- 8** Glass-to-glass modules are more durable and come with an extended warranty of 30 years, 40+ year lifetime.

*Please contact your structural consultant for loadability.

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:

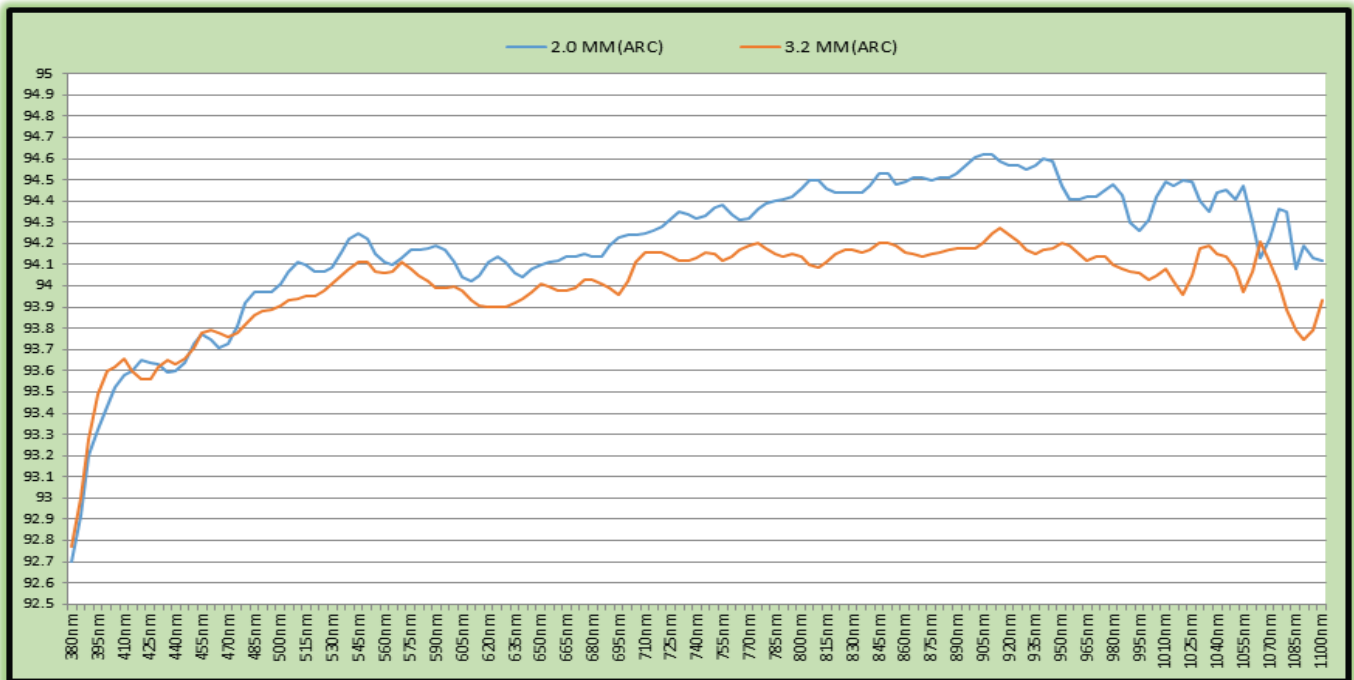
Minimum 90 MPa as per EN 12150-1:2015.

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.

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



Gujarat Borosil Limited

Corporate Office : 1101, Crescenzo, G-Block, Opp. MCA Club, Bandra Kurla Complex, Bandra (E), Mumbai - 400 051, India.

T +91 22 6740 6300 **F** + 91 22 6740 6514 **E** borosil@borosil.com **W** www.borosil.com

Works : Village - Govali, Ankleshwar Rajpipla Road, Jhagadia - Taluka, Bharuch - District, Gujarat State, Pincode - 393 001

T + 91 2645 258100 **E** gborosil@borosil.com