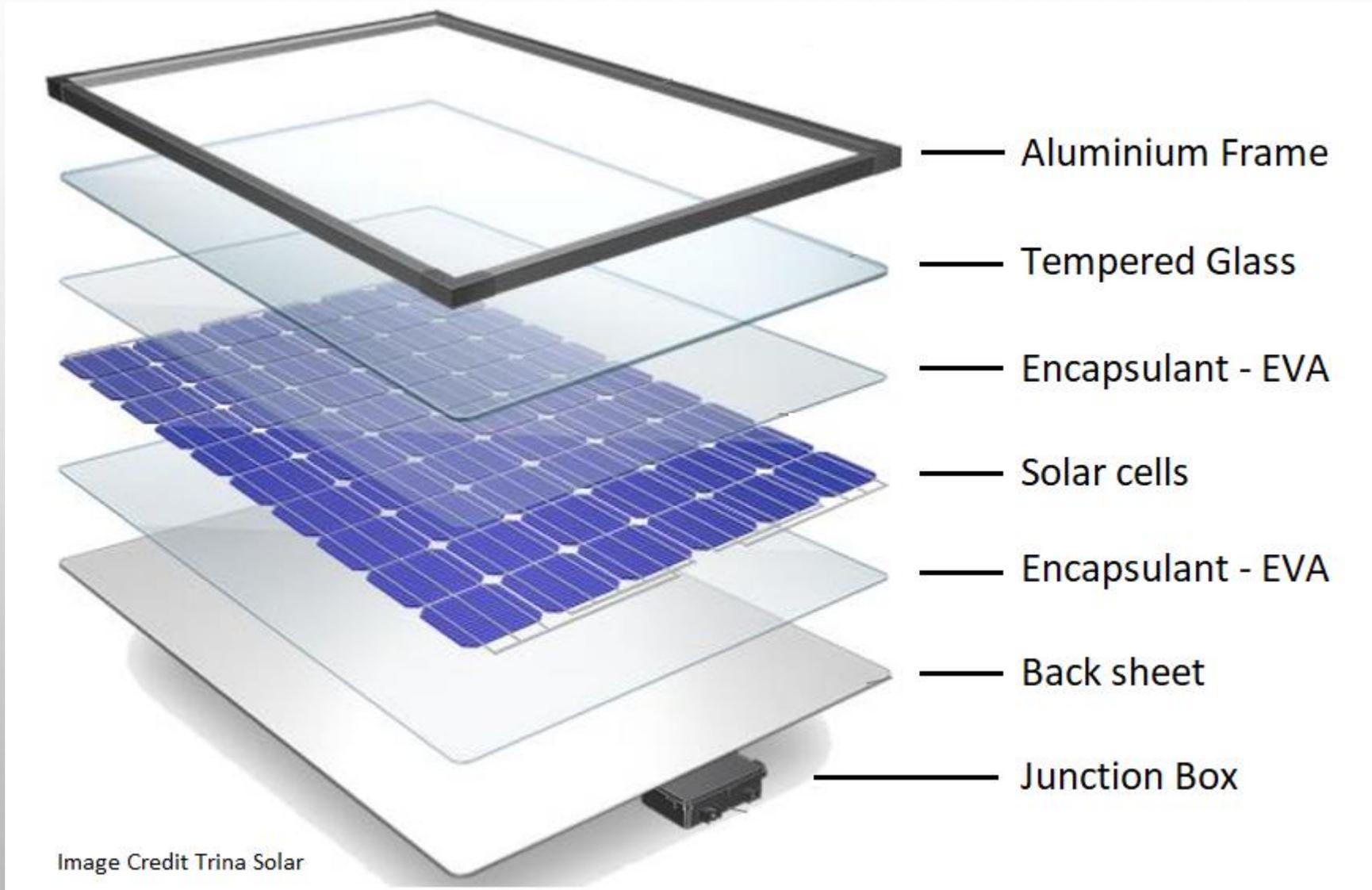
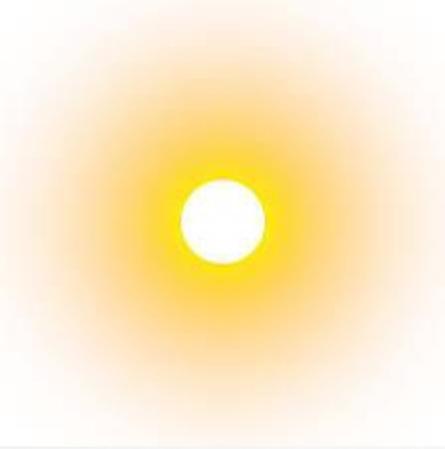


# Solar encapsulation film making





## Function

To support and protect the sensitive photovoltaic cells in solar panels.



## Why EVA is used as encapsulation?

EVA is an elastomeric polymer that produces materials which are "rubber-like" in softness and flexibility. The material has good clarity and gloss, low-temperature toughness, stress-crack resistance, hot-melt adhesive waterproof properties, and resistance to UV radiation.

All these are needed in Solar cell Encapsulation, in fact.

The M/C Looks like this



|                              |          |
|------------------------------|----------|
| Final Width of film mm       | 1200     |
| Thickness Range mm           | 0.2- 0.8 |
| Production Possible Kg/ Hour | 150      |
| Machine speed MPM            | 4 to 5   |

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## Data

| Encapsulation film               | meter                                                        | in Cm     | in Kg      |
|----------------------------------|--------------------------------------------------------------|-----------|------------|
| Usually the film is 0.5 mm thick | 0.0005                                                       | 0.05      |            |
| Width of a feet is 305 mm        | 0.305                                                        | 30.5      |            |
| length of a feet is 305 mm       | 0.305                                                        | 30.5      |            |
| One SQ. Foot in CM Cube is       |                                                              | 46.5125   |            |
| density of EVA is 0.94 GCC       |                                                              |           |            |
| so weight of sq feet in Gram is  | Assuming density fo<br>over all material at just<br>0.94 GCC | 43.72175  | 0.04372175 |
| One Sq M = 10.76 Sq Feet         | so weight of 1 Sq M                                          | 470.44603 | 0.47044603 |



Welcome to talk to us

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