



# Thin Film

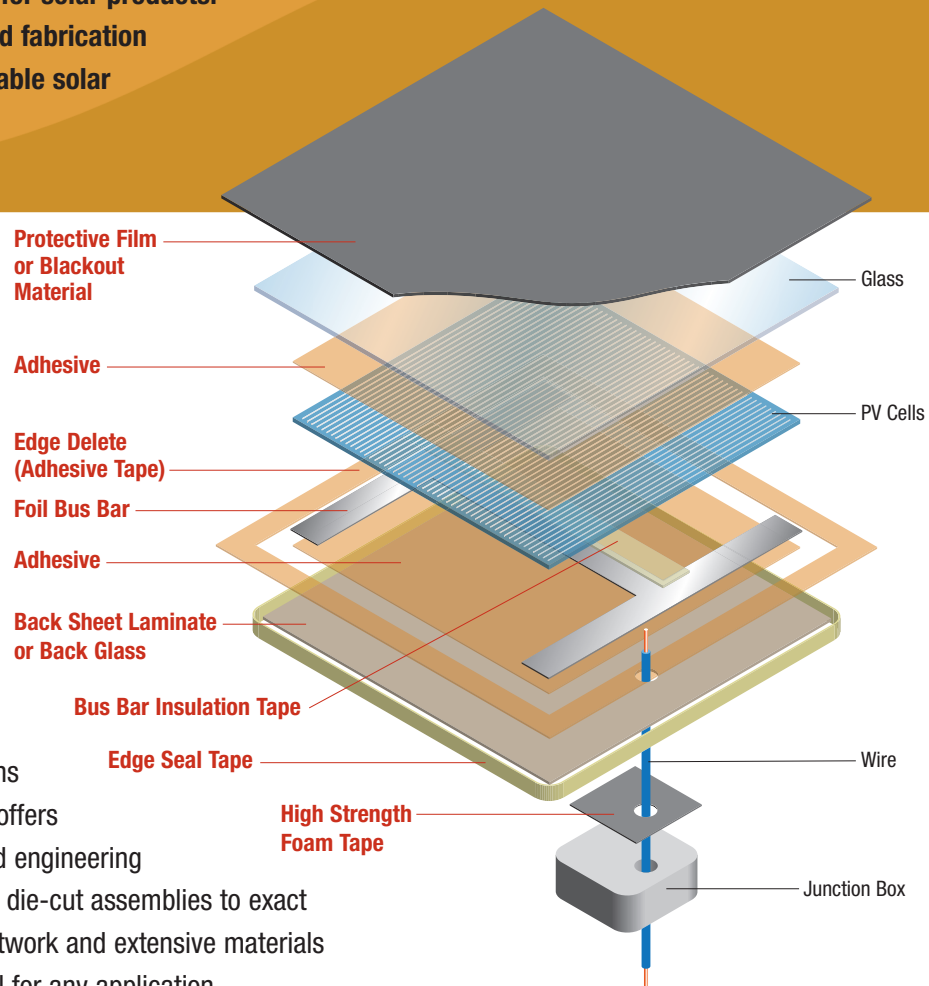
Fabrico is a leading supplier of flexible materials for solar products. Leveraging our veteran design team, sophisticated fabrication equipment, and extensive vendor network, we enable solar manufacturers to improve assembly methods, reduce costs, and boost product performance.

Our finished products are fabricated from a wide variety of tapes, films, papers, and laminates supplied by our world class vendor base. Products are provided to customers in various forms, including slit rolls, pre-fabricated parts, and custom designs.

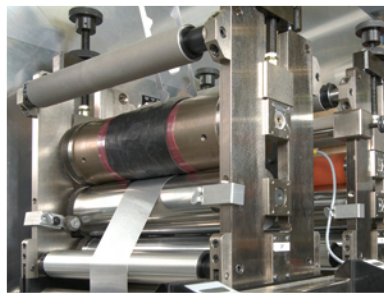
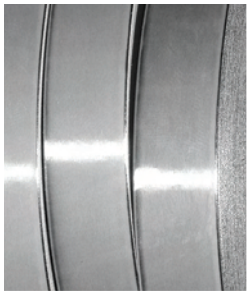
## Products for photovoltaic solar panels include:

### Bus Bars and Bus Bar Materials

The bus bar interconnects solar panels in addition to conducting and distributing current. While bus bar designs and material requirements vary widely from manufacturer to manufacturer, Fabrico custom designs and converts solutions for every application. Fabrico offers simple single-layer bus bars or will leverage its broad engineering experience to design and deliver complex multi-layer die-cut assemblies to exact manufacturing specifications. With its vast vendor network and extensive materials background, Fabrico delivers the appropriate material for any application – foil, overlay, or insulation – with the lowest resistance or out-gassing properties found in the industry. Fabrico employs proprietary slitting techniques that yield sliver-free tapes in some of the narrowest widths available in the market, ideal for bus bar applications.



**FABRICO**™  
A DIVISION OF EIS



*Fabrico offers slitting, laminating, die-cutting, and printing services to its solar customers. Shown here is the flexographic printing press.*

### Protective Materials

Protective materials help prevent panel damage during transportation, reduce exposure to ambient light prior to installation, and improve panel performance when in operation. Fabrico sources and supplies both black out and clear protective films, slit to width or cut to size to meet manufacturer's requirements. Fabrico can also supply interleaf laminate materials used to protect solar panels during the manufacturing process.

### Adhesive Materials

Fabrico converts a variety of adhesives used to bond solar panel layers together. Adhesives are delivered in continuous rolls, cut to size, or slit to width. Fabrico is also working with its suppliers to develop less corrosive alternatives to traditional EVA-based adhesives to allow manufacturers to meet lengthy warranty commitments while maintaining low costs.

### High Strength Foam Tapes

Used to affix the panel junction box to a solar panel, high strength foam tapes are easy to work with and set quickly compared to traditional adhesives, such as liquid silicon. Traditionally, foam tapes are particularly difficult to convert because they tend to re-bond to themselves after being cut. Fabrico has developed pioneering release-agent-free conversion methods, eliminating virtually all contaminants from the tape and enabling the most intricate designs, while maintaining tight tolerances. Fabrico can custom cut, slit, and convert high strength foam tapes into a wide variety of shapes and sizes.

### Edge Materials

Fabrico custom converts and slits both protective edge delete and edge seal materials. Typically used in the manufacture of thin film panels, edge delete materials are placed between panel glass pane layers to seal in adhesives, plus provide a barrier against moisture and contaminants. Edge seal materials, typically used in the manufacture of dense film panels, provide a protective seal around the panel exterior, combating moisture and contaminants. They can also be used to fasten the panel to its frame, eliminating the need for metal fasteners.

### Electrical Insulation Tapes

Fabrico sources and converts a wide variety of insulation tapes to isolate current-carrying devices in bus bars and other panel components. Materials are converted to customer specifications using a variety of in-line processes, including slitting, sheeting, cut-to-length, and die cutting.

EIS also offers a wide variety of additional solar panel materials, including solder, silicon- and epoxy-based adhesives, single-coated electrical tapes (poly, foil, or vinyl), and electrical connectors.



[www.fabrico.com](http://www.fabrico.com)

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### Fabrico Headquarters

4175 Royal Drive, Suite 800  
Kennesaw, GA 30144  
Phone: 678-202-2700  
Fax: 678-202-2702  
Toll Free: 800-351-8273  
E-mail: [info@fabrico.com](mailto:info@fabrico.com)